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OF THE

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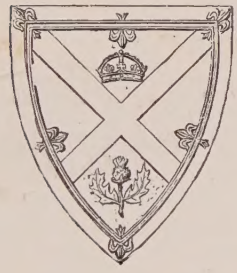

NEW AND ENLARGED EDITION

WITH ILLUSTRATIONS.

PRINTED FOR THE SOCIETY OF ANTIQUARIES
OF SCOTLAND,
QUEEN STREET, EDINBURGH.

1892.

"*In pleading with the Scottish public for the augmentation and enrichment of our Museum by donations of all kinds, however slight and trivial they may seem to the Donors, we plead for what is not any longer the property of this Society, but what is now the property of the Nation. The Museum has been gifted over by the Society of Antiquaries to the Government. It now belongs, not to us, but to Scotland; and we unhesitatingly call upon every true-hearted Scotsman to contribute, whenever it is in his power, to the extension of the Museum, as the best record and collection of the ancient Archæological and Historical Memorials of our Native Land.*

"*We call for such a central ingathering and repository of Scottish Antiquities for another reason. Single specimens and examples of archæological relics are in the hands of a private individual generally nought but mere matters of idle curiosity and wild conjecture; while all of them become of use, and sometimes of great moment, when placed in a public collection beside their fellows. Like stray single words or letters that have dropped out of the Book of Time, they themselves individually reveal nothing, but when placed alongside of other words and letters from the same book, they gradually form—under the fingers of the archæologist—into lines and sentences which reveal secret and stirring legends of the workings of the human mind and human hand in ages of which we have no other existing Memorials.*"—Sir James Y. Simpson's Anniversary Address to the Society of Antiquaries of Scotland, 1861.

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STONE IMPLEMENTS.

SCOTLAND.

KNIVES AND KNIFE-LIKE IMPLEMENTS, &c., OF FLINT.

In Wall Case, East End of First Floor.

[The specimens classed under **AA** consist mostly of well-finished cutting implements of flint. They are of Stone-Age types, and are found with burials, though frequently found casually, and singly. The larger knives and knife-daggers are of great rarity in Scotland, owing to the scarcity of flints of sufficient size to produce them. The ground-edged implements are called knives from their shape, although the ground edge is not such an efficient cutting edge as that formed by secondary chipping. The oval-shaped implements may have been used in the skinning of animals, or in the subsequent preparation of hides for clothing. The elongated implements termed fabricators may have been used as punches in the secondary working of other flint implements.]

AA 1. Knife, leaf-shaped, $7\frac{3}{16} \times 2\frac{1}{2} \times \frac{3}{8}$ in., found near Nunraw, Haddingtonshire—Purchased 1874.

2. Knife, $6\frac{1}{2} \times 1\frac{3}{4}$ in., one edge nearly straight, the other slightly curved, butt-end fractured, point tapering from each edge, found near the Castle of Balveny, Mortlach, Banffshire—*Linn Collection*, Purchased 1888.

3. Semi-oval Knife, $3\frac{3}{8} \times 2\frac{3}{4}$ in., ground smooth from each face to a sharp cutting edge on three sides, from Lanarkshire—Purchased 1866.

4. Semi-oval Knife, $2\frac{13}{16} \times 2\frac{9}{16}$ in., ground from each face to a sharp cutting edge on three sides, probably found at Kintore, Aberdeenshire—*Watt Collection*, Purchased 1865.

5. Semi-oval Knife, $2\frac{1}{4} \times 2\frac{1}{16}$ in., partly ground on each face, especially at the cutting edge, which is sharp and almost straight, from Fordoun, Kincardineshire—*Sturrock Collection*, Purchased 1889.

6. Oblong Knife, with rounded angles, $3\frac{9}{16} \times 2\frac{1}{2}$ in., polished over both faces, and with the sides worked to a sharp edge all round, from Torrs, Glenluce, Wigtownshire—Sir Herbert Eustace Maxwell, 1889.

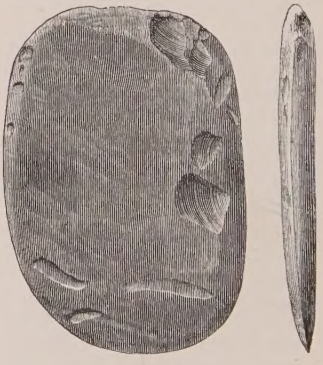
7. Irregular Oval-shaped Knife, $3\frac{3}{4} \times 2\frac{3}{4}$ in., slightly imperfect on one side, partly ground on each face, and ground from each face to a sharp cutting edge on three sides, found on Hill of Pitdoulzie, Turriff, Aberdeenshire—Peter Collier, 1877.

AA 8. Square-shaped Knife, with rounded angles, $2\frac{1}{4} \times 2\frac{3}{16}$ in., ground on each face

AA 1.

AA 2.

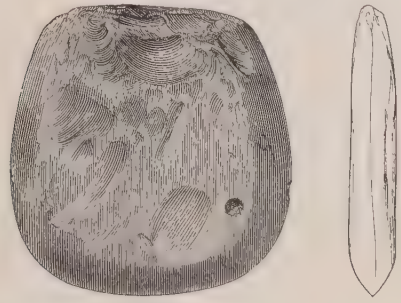
AA 4.



AA 6.

to a sharp cutting edge on three sides, found at Pitforthie, Fordoun, Kincardineshire—George Ross, 1876.

AA 9. Knife or Chisel of oblong form, $2\frac{3}{8} \times 1\frac{1}{4}$ in., each face partly ground, and with cutting edge ground from each face at the narrowest end, found near Fordoun, Kincardineshire—George Ross, 1876.



AA 8.

10. Flake, $4\frac{5}{8} \times 1\frac{1}{16}$ in., curved longitudinally, and finely worked over the upper face and round the sides, found in Sourin Valley, Rousay, Orkney—George M. M'Crie, 1882.

11. Flake, $4\frac{3}{4} \times 1\frac{1}{16}$ in., plano-convex in section, curved longitudinally, finely worked over the convex side and along the edges, found in Aberdeenshire—*Linn Collection*, 1888.

12. Knife, $2\frac{3}{4} \times \frac{5}{8}$ in., ground to a sharp cutting edge from both faces on either side, from Strachur, Argyllshire—John Andrew, 1829.

AA 10.

13–14. Knives, viz.—(**13**) $2\frac{1}{4} \times \frac{9}{16}$ in., ground to a sharp cutting edge from each face on one side; (**14**) calcined flint, imperfect, $1\frac{1}{16} \times \frac{7}{8}$ in., both faces smoothed by grinding, and with sharp cutting edges ground from either face on both sides, both found at Urquhart, Elginshire—Rev. James Morrison, 1871 and 1881.

AA 12, 13.

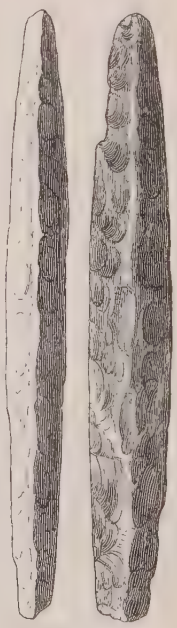
15. Knife, $2\frac{9}{16} \times \frac{15}{16}$ in., ground to a sharp cutting edge on one side from either face, from Blelack, Logie Coldstone, Aberdeenshire—Dr Andrew Robertson, 1867.

AA 16-18. Large Leaf-shaped Implements, viz.—(**16**) $3\frac{5}{8} \times 2\frac{1}{4}$ in., roughly chipped on each face, from Udny, Aberdeenshire—Charles S. Temple, 1863 ; (**17**) 3×2 in., worked over each face and round the sides, from Ferny Brae, Slains, Aberdeenshire—James Dalgarno, 1877 ; (**18**) $3\frac{5}{16} \times 2\frac{1}{16}$ in., found at Slipperfield, Peebleshire—William Forbes, 1863.

19-21. Three Oblong Implements, viz.—(**19**) $2\frac{1}{16} \times 1\frac{5}{16}$ in., finely chipped on each face and pointed at one end, (**20**) $3\frac{7}{8} \times 1\frac{9}{16}$ in., roughly chipped on each face and rounded at each end, both from Udny, Aberdeenshire—Charles S. Temple, 1863 ; (**21**) $3\frac{5}{16} \times 1\frac{9}{16}$ in., chipped on each face and rounded at one end, found at Water Yett, Lochwinnoch—Purchased 1884.

22-26. Oval Knives and Knife-like Implements, viz.—(**22**) $2\frac{9}{16} \times 1\frac{1}{4}$ in., worked over the upper face and along each side, pointed at one end, found at Fordoun, Kincardineshire ; (**23**) ridged flake, $2\frac{5}{16} \times 1\frac{1}{16}$ in., worked along each side on one face, locality unknown—Purchased 1888 ; (**24**) ridged flake, $2\frac{1}{16}$ in. long, worked along each edge on one face, found in Fifeshire—Dr Daniel Wilson, 1863 ; (**25**) knife, $3\frac{3}{8} \times 1\frac{3}{8}$ in., finely worked over the upper face, and pointed at one end, from Tarland, Aberdeenshire—James M. Gow, 1888 ; (**26**) oval double-pointed knife, $3\frac{1}{8} \times 1\frac{9}{16}$ in., finely worked over the upper face, and the under side showing working at one end, from Forglen, Banffshire—Peter Collier, 1878.

AA 25.



AA 29.

27-31. Fabricators or Flaking Tools, viz.—(**27**) imperfect at one end, $2\frac{1}{16}$ in. long, flattish oval in section, from Urquhart, Elginshire—Rev. James Morrison, 1888 ; (**28**) imperfect at one end, $2\frac{3}{8}$ in. long, (**29**) $3\frac{5}{16}$ in. long,

AA with lozenge-shaped section, and the inequalities of the flaking removed by grinding, both from Fordoun, Kincardineshire—Rev. James Brodie, 1874; (**30**) cast, $4\frac{9}{16}$ in. long, the original found at Corennie, Aberdeenshire; (**31**) 4 in. long, plano-convex in section, roughly chipped on the convex face, from Croftnahaven, Abernethy, Strathspey—*Linn Collection*, 1888.

32–47. Knives from Elginshire, viz.—(**32–40**) from $1\frac{3}{4}$ to $2\frac{1}{2}$ in. long; (**41–47**) from $1\frac{3}{4} \times \frac{3}{4}$ in. to $2\frac{3}{8} \times 1\frac{3}{8}$ in., of various forms—Rev. James Morrison.

48. Leaf-shaped Implement, $4\frac{3}{4} \times 2\frac{1}{4}$ in., chipped, from Stannishill, Cruden—*Sturrock Collection.*

49–55. Knives, viz.—(**49**) $2\frac{1}{4} \times \frac{3}{4}$ in., pointed at one end, from Downiebank, Monikie; (**50**) $1\frac{1}{2} \times \frac{15}{16}$ in., from Monikie; (**51**) $2\frac{1}{16} \times \frac{5}{8}$ in., from Oakbank, Monikie; (**52**) 4×1 in., pointed at one end, from Alford, Aberdeenshire; (**53**) $2\frac{5}{8} \times \frac{9}{8}$ in., from Bankhead, Monikie; (**54, 55**) $1\frac{5}{8} \times 1\frac{1}{8}$ in., a half only, and $2\frac{7}{8} \times \frac{7}{8}$ in., pointed at one end, both from Kirkbuddo—*Sturrock Collection.*

56–60. Implements, viz.—(**56**) triangular-shaped, with convex base, $1\frac{5}{8} \times 1\frac{1}{8}$ in., from Inverury; (**57**) oblong, pointed at one end, $2\frac{1}{8} \times 1$ in. (**58**) $3\frac{3}{4} \times 2$ in., imperfect at one end—both from Kirkbuddo; (**59**) $2\frac{1}{4} \times 1\frac{1}{8}$ in., pointed at one end, from Cruden; (**60**) pointed leaf-shaped, $2\frac{3}{8} \times 1\frac{3}{8}$ in., from Downie Muir, Monikie—*Sturrock Collection.*

61–65. Implements, viz.—(**61**) portion of oval-shaped knife from Bankhead, Monikie, (**62**) portion of oval-shaped knife, from Kirkbuddo—both *Sturrock Collection;* (**63**) leaf-shaped implement, $3 \times 1\frac{7}{8}$ in., from Turriff—Purchased 1889; (**64**) portion of knife, calcined, from Aberlour—*Linn Collection;* (**65**) knife, $1\frac{7}{8} \times 1$ in., from Portknockie, Banffshire—Purchased 1889.

66–70. Implements from Urquhart, Elginshire, viz.—(**66**) oblong, pointed at one end, 4×2 in.; (**67, 68**) triangular, each pointed at one end; (**69**) single-edged knife $2\frac{5}{8}$ in. long; (**70**) double-edged knife, $3\frac{1}{8}$ in. long—Rev. James Morrison.

SCRAPERS, CORES, FLAKES, &c., OF FLINT.

In Wall Case, East End of First Floor.

[The specimens classed under **AB** are implements of the simplest form, together with the flakes and cores which are results of the processes of the manufacture of implements from crude blocks of flint. The scraper is formed from a flake with a flat under surface by trimming one end to a rounded edge like that of a round nosed chisel. They may have been fastened in handles of wood or bone, as is done with the scraper of chert used to the present day by the Esquimaux in dressing hides. Side scrapers are formed from flat flakes by merely trimming the edge wholly or partially round. Flake-knives are simply flakes with partially or wholly dressed edges. Scrapers are the most abundant implements of flint. They occur of all sizes, from about $2\frac{1}{2}$ inches to less than $\frac{1}{2}$ inch diameter, and are usually found with quantities of chips and flakes in places where flint working has been practised, but they occasionally occur in connection with burials as the scraping part of the prehistoric apparatus for producing fire by rasping a nodule of iron pyrites with a piece of flint.]

AB 1–24. Two Double-edged Knives, four Scrapers, and eighteen Chips, from Court Hill, Dalry, Ayrshire—R. W. Cochran-Patrick, 1873.

AB 25–72. Scrapers, Knives, worked Flakes, &c., from Ayrshire—R. W. Cochran-Patrick, 1879.

73–175. Five Knives, one hollow Scraper, five Borers, ninety Scrapers, &c., and a large quantity of Chips and Flakes, from Tannadice, Forfarshire—Purchased.

176–184. Two Scrapers and seven fragments of Agate, from Hatton Cairn, Forfarshire—*Sturrock Collection.*

185–194. Worked Implements and two Flakes from a cairn at Fallaws, Monikie, and seven Flakes, some worked, from Kirkbuddo—*Sturrock Collection.*

195. Collection of rude Flints from the superficial deposits of the Mull of Galloway—Dr William Gemmill, 1883.

196–201. Five Scrapers and quantity of Chips and Flakes, from Orkney—Purchased 1888.

AB 176.

AB 222.

202. Collection of rude Cores, Flakes, and Chips, from Kildrummy and Cabrach, Banffshire—Rev. Dr A. Gordon, 1884.

203. Large collection of about two thousand rude Cores, Flakes, and Chips, from Skelmuir, Slains, Ellon, Waterton, and Forvie, Aberdeenshire, Birnie, Elginshire, &c.—T. F. Jamieson, 1862 ; Rev. Dr Gordon, 1864 ; James Dalgarno, 1874 ; J. Sturrock, 1880 ; Purchased 1891, &c.

204–256. Six Borers, Gun Flint, seven Knives, two Saws, discoidal Implement, crescent-shaped Implement, twenty-eight Scrapers, and a quantity of Chips and Flakes from various localities in Elginshire—Rev. James Morrison, 1872, &c., and *Linn Collection.*

257. Collection of flint Chips, &c., from Colonsay—William Stevenson, 1881.

258, 259. Scrapers, viz.—(**258**) duck-bill shaped, $1\frac{3}{4} \times 1\frac{3}{8}$ in., from Urquhart, Elgin—Rev. Jas. Morrison ; (**259**) $2\frac{1}{2} \times 1\frac{7}{8}$ in., from Gullane Links, Haddingtonshire—James Hardy, 1884.

260–337. Two Saws, six Knives, two worked Implements, two Cores, six Pistol Flints, and sixty Scrapers, from Tannadice, Forfarshire—Purchased 1887, 1888.

338–350. Scrapers of various forms, from the Cabrach, Banffshire—Rev. Dr A. Gordon, 1884.

351–400. Nine Saws, ten Knives, and thirty-one Scrapers, from various localities in Elginshire—Rev. James Morrison.

AB **401-410.** Worked Implements, mostly of triangular form, from Aberdeenshire—Purchased, &c.

411-419. Four finely-formed Knives and a Borer from Aberdeenshire; a triangular Knife from Banffshire; two finely-formed Knives from Coulter, Lanarkshire; and a finely-formed triangular, pointed Knife, locality unknown.

420-448. Worked Implements and Scrapers, from various localities in Aberdeenshire—Purchased.

449-453. Four Scrapers and a Saw, from Aberlour, Banffshire—J. R. Findlay, 1888.

AB 258.

AB 259.

454-489. Miscellaneous Implements, viz.—(**454**) double-edged saw, from Forglen—P. Collier, 1877; (**455**) double-edged knife, from Berwick—Purchased 1889; (**456, 457**) worked flakes, from Pitfodels—F. Smith, 1861; (**458**) double-edged knife, from Orkney—Purchased 1887; (**459**) duck-bill scraper, locality unknown; (**460-461**) scraper and trimmed flake from Bankhead—*Sturrock Collection;* (**462**) scraper, from Killin—Charles Stuart; (**463**) double-edged knife, from Glenree, Arran—James Todd, 1890; (**464, 465**) knife and worked implement, from Banffshire; (**466-472**) worked implements, from Banffshire; (**473-479**) worked implements, from Forfarshire—*Sturrock Collection;* (**480**) portion of knife, from Blairgowrie—Dr J. C. Rattray, 1879; (**481-489**) scrapers, core, knife, &c., from Kincardineshire—Purchased.

490-560. Cores from which Flakes have been struck for the manufacture of Implements, from various localities in Aberdeenshire—John Sturrock, 1880; Purchased; and *Sturrock Collection.*

IMPLEMENTS OF ROUGHLY-CHIPPED STONE OTHER THAN FLINT.

In Floor Cases, First Floor, West End, North Side.

[The specimens in this class are implements mostly of considerable size, and very rudely chipped out of sandstones, claystones, steatite, granite, &c., but in no instance made of flint. The common forms are club-shaped, or handled, or oblong pieces of schist with the edges chipped straight and the ends brought to a point, where they frequently show evidence of wear by friction. Such implements are peculiar to Orkney and Shetland. Their purpose and age are

alike unknown, but there is apparently nothing in their forms or in the circumstances in which they were found to connect them necessarily with the Ages of Stone or Bronze. A few of the thin handled knives are ground smooth.]

AC 1–11. Flat, Oblong Implements of roughly-chipped Sandstone, pointed at both ends, from Shetland, viz.—(1) $20\frac{1}{4} \times 4\frac{1}{2}$ in.; (2) $18\frac{1}{2} \times 4\frac{1}{2}$ in., from Burrafirth, Unst—Andrew Umphray, 1869; (3) $19\frac{1}{2} \times 5\frac{1}{2}$ in.; (4) $10\frac{1}{2} \times 2\frac{3}{4}$ in., from Walls—Rev. James Russell, 1869; (5) $11\frac{1}{4} \times 3\frac{1}{4}$ in., from West Burrafirth—Purchased 1878; (6) 14×4 in., end smoothed; (7) imperfect, $12\frac{1}{4} \times 4$ in., smoothed; (8) $8\frac{3}{4} \times 2\frac{1}{4}$ in.; (9) $11\frac{1}{2} \times 3\frac{1}{4}$ in.; (10) imperfect, $8\frac{1}{2} \times 4$ in.; (11) imperfect, 9×4 in., from near the underground structure of Safester and Houland, Sandsting and Walls, and at Braefield, Dunrossness—Arthur Mitchell, M.D., 1867, 1877.

12–32. Club-like Implements of roughly-chipped Sandstone, from Shetland, viz.—(12) 21×4 in., from Walls—Rev. J. Prentice, 1875; (13) $14\frac{1}{4} \times 3\frac{1}{4}$ in., from Walls—Rev. J Russell, 1869; (14) $14 \times 3\frac{1}{2}$ in., from Walls—Dr Arthur Mitchell, 1867; (15) 17×3 in., from Walls—A. Umphray, 1870; (16) imperfect, $10\frac{1}{2} \times 3$ in., partly smoothed at one end, from Walls—Rev. J. Russell, 1869; (17) $21 \times 2\frac{1}{2}$ in., smoothed at the pointed end, from Walls—A. Mitchell, M.D., 1867; (18) $8 \times 2\frac{1}{4}$ in., from West Burrafirth—Purchased 1878; (19) imperfect, $7 \times 2\frac{3}{4}$ in.; (20) imperfect, $7\frac{1}{4} \times 3$ in.; (21) imperfect, $7 \times 2\frac{1}{4}$ in., partly smoothed; (22) imperfect, $6\frac{1}{2} \times 2\frac{1}{2}$ in., partly smoothed; (23) $8 \times 2\frac{1}{2}$ in.; (24) $7\frac{1}{2} \times 3$ in.; (25) imperfect, $9 \times 2\frac{1}{4}$ in.; (26) $8\frac{1}{2} \times 2\frac{1}{2}$ in., from Walls—A. Mitchell, M.D., 1876; (27) $10\frac{3}{4} \times 2\frac{1}{4}$ in.; (28) $11 \times 2\frac{1}{4}$ in.; (29) $7\frac{1}{4} \times 2\frac{1}{4}$ in., partly smoothed; (30) $10\frac{1}{2} \times 2\frac{1}{4}$ in.; (31) $9 \times 2\frac{1}{2}$ in.; (32) $7 \times 2\frac{1}{4}$ in., from Walls, Shetland—Rev. A. Prentice, 1875.

33–36. Elongated or Club-like Implements of Sandstone, broken, and smoothed at the pointed ends, from Shetland, viz.—(33) $8\frac{1}{2} \times 2\frac{1}{4}$ in.—Dr James Hunt; (34) $9\frac{3}{4} \times 2\frac{1}{2}$ in.; (35) 7×3 in.; (36) $9 \times 2\frac{1}{2}$ in.—Dr A. Mitchell, 1878.

37–61. Oblong, Flattish Implements of roughly-chipped Sandstone, from Shetland, viz.—(37) $9 \times 2\frac{1}{2}$ in.; (38) $7\frac{3}{4} \times 2\frac{1}{4}$ in.—Dr J. Hunt; (39) $9\frac{3}{4} \times 3$ in.; (40) $7\frac{1}{4} \times 2\frac{1}{4}$ in.; (41) $9\frac{1}{4} \times 3$ in., from Walls—Rev. A. Prentice, 1875; (42) $6\frac{1}{2} \times 3$ in.; (43) 7×3 in.; (44) $6\frac{1}{2} \times 2\frac{3}{4}$ in.; (45) $7\frac{1}{2} \times 3$ in.; (46) $6\frac{1}{4} \times 2\frac{1}{2}$ in.; (47) $6\frac{3}{4} \times 2\frac{1}{2}$ in.; (48) $6\frac{1}{4} \times 2\frac{1}{2}$ in.; (49) $7\frac{1}{4} \times 2\frac{1}{4}$ in., from West Burrafirth—Purchased 1878; (50) $9\frac{1}{2} \times 3$ in.; (51) $9 \times 2\frac{1}{2}$ in.; (52) $7\frac{1}{4} \times 3\frac{1}{2}$ in.; (53) 8×3 in.; (54) $6\frac{1}{2} \times 2\frac{3}{4}$ in.; (55) $9 \times 3\frac{1}{2}$ in.; (56) $6\frac{1}{4} \times 2\frac{1}{4}$ in.; (57) $8\frac{1}{4} \times 2\frac{3}{4}$ in.; (58) $7\frac{1}{2} \times 2\frac{1}{2}$ in.; (59) $8 \times 2\frac{1}{2}$ in.; (60) $7\frac{1}{4} \times 2\frac{3}{4}$ in.; (61) $7\frac{1}{4} \times 3\frac{1}{2}$ in.—Arthur Mitchell, M.D., 1877.

62–70. Implements of roughly-chipped Sandstone, from Shetland, viz.—(62) $8\frac{1}{4} \times 3\frac{1}{4}$ in.; (63) $7\frac{1}{4} \times 3\frac{1}{4}$ in.; (64) $7\frac{1}{2} \times 2\frac{3}{4}$ in.; (65) 7×3 in.; (66) $13\frac{3}{4} \times 4\frac{1}{2}$ in.; (67) $10\frac{1}{4} \times 4$ in.; (68) $7\frac{1}{2} \times 3\frac{3}{4}$ in.; (69) $10 \times 3\frac{3}{4}$ in.; (70) $7\frac{1}{4} \times 3\frac{1}{2}$ in., from Walls—all Purchased 1875.

71, 72. Implements of peculiar form of roughly-chipped Sandstone, viz.—(71) $6\frac{3}{4} \times 2\frac{3}{4}$ in.; (72) $7\frac{1}{2} \times 3\frac{1}{2}$ in., from Shetland—A. Mitchell, M.D., 1877.

73.–Implement of rounded and roughly-chipped Sandstone, $9\frac{1}{2} \times 2\frac{1}{2}$ in., from Walls—Rev. J. Russell, 1869.

74–79. Handled Implements of Sandstone, flat, from Shetland, viz.—(74) $10 \times 3\frac{1}{2}$ in., handle $4\frac{1}{2}$ in. long; (75) $10 \times 3\frac{1}{4}$ in.; (76) $10\frac{3}{4} \times 3\frac{3}{4}$ in.; (77) $9 \times 3\frac{1}{2}$ in., from Walls—Rev. A. Prentice, 1875; (78) $7\frac{1}{2} \times 3$ in., from West Burrafirth—Purchased 1878; (79) $12\frac{1}{4} \times 5\frac{1}{2}$ in.—Arthur Mitchell, M.D., 1877.

80–92. Club-like Implements of Sandstone, with handles, from Shetland, viz.—(80) $12\frac{3}{4} \times 3\frac{1}{2}$ in., handle $4\frac{1}{2}$ in. long—A. Umphray, 1869; (81) $11\frac{1}{2} \times 3$ in., handle tapering, $3\frac{1}{4}$ in. long; (82) $9\frac{1}{4} \times 3\frac{1}{4}$ in., of mica schist, imper-

AC fect handle, 3¼ in. long; (**83**) imperfect, 8¼ × 2¾ in., smooth handle, 3¼ in. long—Dr A. Mitchell, 1867 and 1877; (**84**) 6½ × 3 in., smoothed

Types of Rude Stone Implements from Orkney and Shetland.

handle, 2 in. long—Mrs Hope, 1867; (**85**) imperfect, 5½ × 3 in., smoothed handle, 3 in. long; (**86**) imperfect, 5½ × 3 in., smoothed handle, 3½ in.

AC long; (87 to 90) handles of similar implements, 3½ to 5¼ in. long; (91) handle, 4½ in. long, with knob at end; (92) similar implement, imperfect—Dr A. Mitchell, 1867 and 1877.

93–97. Oblong, rounded, and smoothed Implements of Sandstone, constricted on two sides, from Shetland, viz.—(93) 9¼ × 3½ in.; (94) 9 × 3½ in.; (95) 8 × 3½ in.; (96) 5½ × 3¼ in., from Braefield; (97) 5 × 2½ in.—Arthur Mitchell, M.D., 1867.

98–113. Pounders of Sandstone, found with the other Implements, viz.—(98–108) from 3 to 4½ in. diameter, roughly chipped, and rounded by use; (109) spherical-shaped; (110–111) 5½ and 6¼ in. long; (112) oblong pebble, 4 × 3 in., worn by use; (113) spherical ball, 3 in. diameter—Dr Arthur Mitchell, 1867.

114–123. Axe and Club-like Implements of Mica Schist, from Clisbow, Unst, viz.—(114) 6¾ × 2¼ in.; (115) 6½ × 2½ in.; (116) 13 × 3¼ in.; (117) 12½ × 3½ in.; (118) 9 × 3 in.; (119) 8 × 2⅝ in.; (120) 7¼ × 2½ in.; (121) 7 × 3 in.; (122) 6½ × 3 in.; (123) 9¼ × 2⅝ in.—Thomas Edmonstone.

124–128. Elongated Implements, from Orkney, viz.—(124) 11 × 3 in., partially smoothed, (125) 12½ × 3 in., smoothed, both from parish of St Andrews; (126) imperfect, 10⅞ × 3¼ in., from Bookan, Sandwick; (127) imperfect, 7⅛ × 3¼ in., partially smoothed, from a grave at Whitehall, Stronsay; (128) 10½ × 3 in., from Deerness—all by G. Petrie, 1867.

129. Implement of Sandstone, 6½ × 3 in., polished, from Shapinsay—Col. Balfour, 1867.

130–132. Rude Implements from an underground house in St Kilda, viz.—(130) 7¼ × 3¼ in.; (131) 10 × 4⅜ in.; (132) 6½ × 4 in.—J. Sands, 1877.

133–135. Oblong, Flattish Implements of Sandstone, viz.—(133) 7¾ × 3¼ in.; (134) 7¼ × 3 in.; (135) 7 × 3½ in., from Shetland.

136–138. Implements, viz.—(136) club-form of sandstone, 6½ in. long, with smoothed handle, 3 in. long; (137) smoothed sandstone handle, 3½ in. long; (138) sandstone pounder, 3½ in. long, worn by use, from Tafts Grunay, Birsay, Orkney—W. G. T. Watt, 1882.

139, 140. Flat, Oblong Implements of Sandstone, viz.—(139) 9¼ × 4 in., curved; (140) 10 × 3½ in., from Walls, Shetland—Rev. J. Russell, 1869.

141, 142. Knives of thin Micaceous Sandstone, from Shetland, viz.—(141) 9½ × 2½ in.; (142) 5 × 2⅜ in., imperfect—Mrs Hope, 1842 and 1859.

143–213. Collection from West Burrafirth, chiefly of Stone Implements, viz.—(143–146) of roughly-chipped sandstone, from 7 × 3¼ in. to 9 × 4⅛ in.; (147–150) fragments of flat implements; (151) flat implement of sandstone 6 × 2¼ in.; (152–168) elongated knives of micaceous sandstone, ground, from 2 to 6½ in. long, with handles, mostly imperfect; (169–192) fragments, of similar implements, from 1⅝ to 4¾ in. long; (193) flat, squarish, saw-like implement of slate ground to an edge, 4¾ × 2¼ in.; (194–196) whetstones, viz.—(194) of slate, 6 × 1 in.; (195) of micaceous sandstone, 5¼ × 2⅜ in.; imperfect; (196) of sandstone, 5¾ × 1⅝ in.; (197, 198) cutting ends of two axes; (199) bottom of a vessel of steatite, 5½ in. diameter; (200–203) fragments of vessels of steatite and clay; (204) flat, circular implement, 3 in. diameter, perforated; (205–209) pieces of worked jasper and porphyry and two pieces of bronze mountings; (210, 211) implements of baked clay; (212, 213) fragments of urns, burnt bones, and charcoal—all Purchased 1878.

214. Club-like Implement of Sandstone, 10 in. long, with a handle at one end, from an ancient structure near Stennis—Col. Balfour, 1882.

215–222. Oblong, Flattish Implements of Sandstone, from Kennaby, Fair Isle, viz.—(215) 9½ × 3⅜ in., constricted in the middle; (216) 13 × 3½ in., roughly pointed, and constricted as if for a handle; (217) 8½ × 4 in.;

AC (218) $9\frac{1}{2} \times 4$ in.; (219) $8\frac{1}{2} \times 3\frac{3}{4}$ in.; (220) $8 \times 3\frac{1}{4}$ in.; (221) $7\frac{1}{2} \times 4$ in., imperfect; (222) 7×4 in., imperfect—John Bruce, 1882.

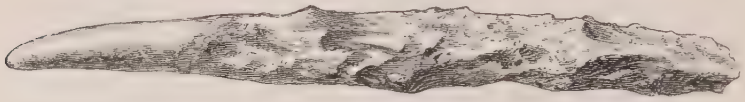
Types of Rude Stone Implements from Orkney and Shetland.

223. Elongated Implement of Micaceous Sandstone, $10\frac{1}{4} \times 3\frac{3}{4}$ in., smoothed to a point, from Unst—P. Dudgeon, 1883.

AC 224–242. Whorls, Buttons, and Beads of Sandstone, Steatite, and Glass, from West Burrafirth—Purchased 1883.

243. Elongated Implement of Micaceous Sandstone, 17½ in. long, flattish on one side, from Walls, Shetland—Rev. A. Prentice, 1886.

244. Cast of a Club-like Implement of Sandstone, 17 × 3 in., tapering to a point at one end, and picked all over the surface, except on one side for a space of 6 in. from the point where it is polished, from Housetter, Tingwall, Orkney—Purchased 1885.



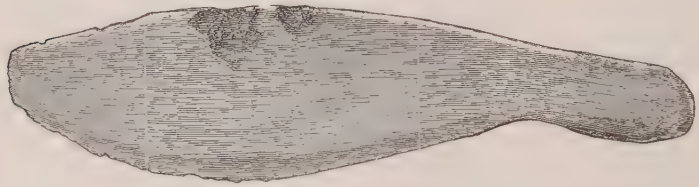
Club-shaped Implement, Shetland.

245. Cast of a rude Implement of Sandstone, 10½ × 2½ in., tapering to both ends, one end broken, the surface picked and partially smoothed, found at Scousburgh, Dunrossness, Shetland—Purchased 1885.

246–247. Rude Implements, from Deerness, Orkney, viz.—(246) 6¼ in. long, partly smoothed and pointed at one end; (247) oblong, 9½ × 3½ in., partly smoothed on one side—Purchased 1887.

248, 249. Rude Implements, from Braefield, viz.—(248) handle of implement of mica schist, 6⅛ in. long; (249) tongue-shaped implement, partly smoothed, 7¼ in. long—Purchased 1887.

250–271. Collection of Implements, from Sanday, viz.—(250–257) oblong pointed implements of sandstone, some partly polished at the point; (258–262) water-worn pebbles of sandstone worn at both ends; (263, 264) small blocks of sandstone, each with rudely-picked hollow on one side; (265) oblong sinker with picked groove around the centre; (266–270) rudely-formed oblong-shaped implements of sandstone; (271) portion of side of stone vessel—Purchased 1887.



Knife of Stone from Shetland.

272–280. Rudely-formed, Oblong-shaped Implements of Sandstone, from Carness—Purchased 1887.

281–284. Waterworn Pebbles of Sandstone, abraded at ends by use, from Stronsay and Walls, Orkney—Purchased 1887.

285–298. Rude Stone Implements, from Walls, Shetland, viz.—(285–293) elongated chipped implements from 6¾ to 12 in. long; (294–298) two discs of sandstone, and three hammerstones—*Linn Collection*, Purchased 1888.

299. Club-shaped Implement of Steatitic Stone, 32¾ in. long, from Northmavine, Shetland—Purchased 1888.

300–308. Rudely-chipped, Oblong, Flattish Implements of Sandstone, from Orkney—Purchased 1888.

309. Elongated pointed Implement of Sandstone, from Sanday—Purchased 1888.

AC 310-317. Hammerstones, abraded at one or both ends by use, from Orkney—Purchased 1888.

318. Elongated pointed Implement of Sandstone, 14 in. long, from Orphir, Orkney—Purchased 1890.

319-492. Rude Implements of various forms, from Leenow, Orkney—Purchased 1885.

FLINT ARROW AND SPEAR HEADS.

In Wall Case, East End of First Floor.

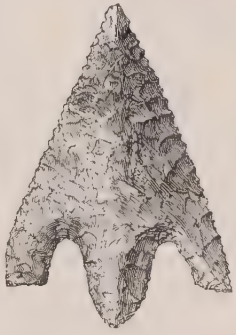
[Flint arrow-heads are of three varieties of form—leaf-shaped, lozenge-shaped, or triangular, with barbs and basal stem for attachment to the shaft. They vary considerably in size, and there is no appreciable difference between the largest arrow-heads and the smaller sizes of so-called spear-heads. A rare variety of spear-head, more common in Ireland than in Scotland, has the flat faces ground or polished. It is not known which of the three forms is the earlier. Both the leaf-shaped and the triangular form, with barbs and stems, have been found in Stone-Age burials. But as there are no bronze arrow-heads in Britain, the use of flint arrow-points appears to have continued all through the Bronze Age. A model of an arrow-shaft from a moss at Fyvie, Aberdeenshire, is shown in the desk-case underneath. The piece of wood from which it was made was sawn to the length, shaved down to the thickness, and planed to the roundness of the arrow-shaft, entirely with tools of flint.]

AD 1-261. From Aberdeenshire, viz.—(**1-140**) with barbs and stems; (**141-261**) leaf and lozenge shaped—John Stuart, LL.D., 1853; C. S. Temple, 1860 and 1863; Joseph Robertson, 1860; A. G. Anderson, 1863; Hon. A. H. Gordon, 1865; Rev. J. Christie, 1865; James Smith, 1866; Sir Charles Forbes, 1860, 1867; Andrew Jervise, 1866; Col. Forbes Leslie, 1868; Dr Arthur Anderson, 1868; Miss J. Kennedy, 1877; James Dalgarno, 1875, 1877, 1880; Peter Collier, 1871, 1877, 1882; Purchased 1865, 1878, 1883.

262-390. From Kincardineshire, viz.—(**262-338**) with barbs and stems; (**339-390**) leaf and lozenge shaped—Rev. J. Brodie, 1872 and 1875; Purchased 1878, 1882, 1883; Geo. R. Kinloch, 1863.

391-452. From Elginshire, viz.—(**391-418**) with barbs and stems; (**419-452**) leaf and lozenge shaped—Rev. James Morrison, 1871, 1872, 1873, 1876, 1885, 1887; Geo. B. Robertson, 1860; Purchased 1883.

AD 415.

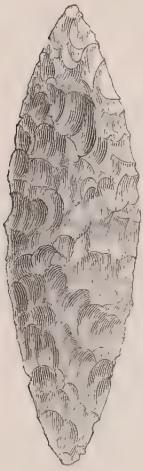


AD 417.

453-526. From Banffshire, viz.—(**453-478**) with barbs and stems; (**479-526**) leaf and lozenge shaped—Alexander Robertson, 1852; Rev. A. Wilson, 1852; Capt. Stewart, 1852, 1853; William Hutchison, 1860;

AD James Paterson, 1860, 1863, 1865, 1868; Peter Collier, 1863, 1877, 1882; Purchased 1882, 1883, 1887.

527–539. From Forfarshire, all with barbs and stems—David Mitchell, 1864; J. S. Gibb, 1860 and 1878; Mr Spalding, 1869; Purchased 1883.



AD 451.

540–547. From Dumfriesshire and Peeblesshire, viz.—four barbed and stemmed and one lozenge-shaped from Gretna Green and Rigmoor—Dr. A. Mitchell, 1877, and T. Wishart, 1829; one barbed and stemmed from Slipperfield, and one leaf-shaped from Skirling—T. Brown 1860; one with barbs and stem from Dolphinton—Miss C. Maclagan, 1875.

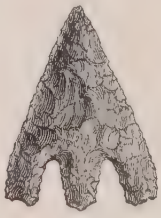
AD 452.

548–557. Arrow-heads, viz.—three with barbs and stems, from Lanarkshire—*Sim Collection;* Mrs White, 1882; one of grey flint, with barbs and stem, from Lanark—C. Balfour, 1827; one with barbs broken, from Lanarkshire; two leaf-shaped, from Arran—W. Ivison Macadam, 1887; one barbed and two leaf-shaped, from Wigtownshire—Dr William Gemmill, 1883.

558–569. Arrow-heads, viz.—seven barbed and stemmed, from Ayrshire—R. W. C. Patrick, 1879; one barbed and stemmed and two leaf-shaped, from Ross-shire—one by W. T. M'Culloch, 1862; two barbed and stemmed arrow-heads, from Moy, Inverness-shire—Miss Sophia Cumming, 1860.

570–577. Arrow and Spear Heads, viz.—three barbed, from Caithness—A. H. Rhind, 1860; Col. D. Balfour, 1863; Purchased 1883; one barbed, from Shapinsay, Orkney—Col. Balfour, 1877; two leaf-shaped, one lozenge-shaped, and one barbed, from Fife.

AD 540.



AD 573.

578–586. Arrow-heads, barbed and stemmed, viz.—one from Drumfad, Blackford, Perthshire — A. G. Reid, 1882; one from Hedderwick, Dunbar—J. P. Park, 1862; one from Dunkeld—Geo. Sinclair, 1887; one from Doune — Purchased 1883; one from Nairn—Purchased 1883; one from Jedburgh—Purchased 1883; one from West Mains, West Calder—A. Purdie, 1871; spear-head of blue flint, 2¾ in., long, broken at the point, said to have been found in the Tay, near Abernethy, Perthshire, but rather of North American type—D. Bennet, 1870; of greenish flint, locality unknown—Purchased 1883.

587–602. Leaf-shaped Arrow-heads, from Aberdeenshire—Purchased 1888.

603–616. Arrow-heads, with barbs and stems, from various parts of Banffshire—Purchased 1888.

AD 617–619. Two Arrow-heads, with barbs and stems, and one leaf-shaped, found in Orkney—Purchased 1888.

620–633. Thirteen Arrow-heads with barbs and stems, and one with hollow base, from Aberdeenshire—Purchased 1888, and James Ellis, 1888.

634–669. Leaf-shaped Arrow-heads, from Aberdeenshire—Purchased 1888.

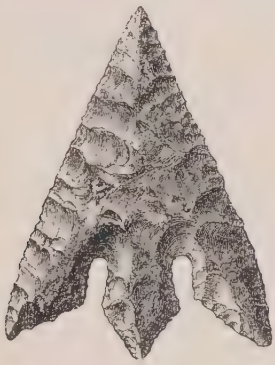
670–720. Arrow-heads, viz.—(**670–705**) principally of the leaf-shaped form ; (**706–720**) arrow-heads, with barbs and stems, all found in Aberdeenshire—Purchased 1889.

721–736. Arrow-heads of leaf and lozenge shapes, several imperfect, from Auchtertyre, Chapelhead, Glenlivet, Mortlach, and Portknockie, Banffshire—Purchased 1888, 1889, 1890.

737–748. Arrow-heads, with barbs and stems, six slightly imperfect, from Glenlivet, Glenmarkie, Cabrach, Aberlour, and elsewhere in Banffshire—Purchased 1888, 1890.

749–787. Arrow-heads, from various localities in Forfarshire, viz.—(**749–759**) with barbs and stems, from Tannadice, Melgund, Monikie, Inverarity, and Carmyllie ; (**760–771**) of leaf and lozenge shapes, from Tannadice, Kirriemuir, Monikie, Kirkbuddo, and Inverarity ; (**772–787**) of leaf and lozenge forms, mostly imperfect, from Tannadice, Monikie, and two of hollow-based form, from Monikie—Purchased 1887 and 1888, and *Sturrock Collection*, 1889.

AD 805.



AD 756.

AD 841.

788–810. Arrow-heads, from various localities in Kincardineshire, viz.—(**788–810**) with barbs and stems, from Bervie, Fordoun, Kinneff, Stonehaven, Arbuthnot, Petty, and Rickerton—*Sturrock Collection*, 1889.

811–831. Arrow-heads, from various localities in Aberdeenshire, viz.—(**811–819**) with barbs and stems, principally from Huntly ; (**820–831**) leaf and lozenge shaped, some imperfect, from Old Meldrum, Slains, Fyvie, Deeside, Kintore, and Udny—James Dalgarno ; Purchased 1888 ; *Sturrock Collection*, Purchased 1889 ; James Ellis.

832–843. Ten Arrow-heads, with barbs and stem, from various parts of Aberdeenshire, principally Huntly, one of triangular form, with deep hollow base, from Ellon, and another also of hollow-based type—Purchased, principally *Sturrock Collection*.

AD 844-855 Arrow-heads, from Elginshire, one of chisel-ended form, the others of irregular leaf and lozenge forms, from Duffus and Urquhart—*Linn Collection*, Purchased, and Rev. James Morrison.

AD 844.

856-867. Arrow-heads, with barbs and stem, from various localities, viz.—five from Tannadice, Forfarshire, one from Bervie, and one from Muchals, Kincardineshire, three from Urquhart, one from Dallas, and one unknown—Purchased; Rev. James Morrison ; *Linn Collection.*

868-881. Seven Arrow-heads of leaf shape, and seven with barbs and stem, from Aberdeenshire—Purchased 1891.

882-891. Arrow-heads of leaf and lozenge shape, mostly imperfect, and a lanceolate Spear-head from Kincardineshire —*Linn* and *Sturrock Collections*, Purchased ; and Rev. J. Morrison, 1892.

892-901. Arrow-heads of leaf and lozenge shape, mostly imperfect, from Banffshire ; Spear-head, with barbs and stem, from Boyndie ; and two Arrow-heads from Tannadice, Forfarshire—Purchased, and Rev. James Anderson, 1891.

902-911. Arrow-heads, viz.—(**902**) leaf-shaped, from Glenree, Arran—James Todd, 1890 ; (**903**) large leaf-shaped, from Inverness-shire—*Sturrock Collection ;* (**904**) locality unknown ; (**905, 906**) one triangular and one leaf-shaped, from Jedburgh—Purchased 1888 ; (**907, 908**) one rudely barbed and one lozenge-shaped, from Elginshire—*Linn Collection ;* (**909-911**) two triangular and one hollow-based arrow-head of rude form, from Aberdeenshire—Purchased 1888.

FLINT ARROW AND SPEAR HEADS, &c.

[From other European Countries, for comparison.]

Arranged in Floor-Case on North Side of Second Floor.

AE 1-437. Arrow and Spear Heads, viz.—(**1-176**) arrow and spear heads, with barbs and stems ; (**177-242**) leaf and lozenge shaped spear-heads ; (**243-437**) leaf and lozenge shaped and small spear-heads, all from Ireland—A. H. Rhind, 1860 ; *Bell Collection*, Purchased 1867 ; and Sir C. Wyville Thomson, 1872.

438-444. Single-barbed Arrow-heads, or possibly Knives, found in Ireland—*Bell Collection*, &c.

445-499. Oblong and Leaf-shaped Implements, worked on both edges, probably Knives, found in Ireland—*Bell Collection*, and Sir C. Wyville Thomson, 1872.

500-514. Large Leaf-shaped Implements, with worked edges, found in Ireland —*Bell Collection*, &c.

515-526. Hollow Scrapers, six from County Antrim, Ireland—T. W. U. Robinson, 1880, and *Bell Collection.*

527-574. Large Scrapers, oblong and round shaped, found in Ireland—*Bell Collection*, &c.

575-735. Large Flakes, found in Ireland—*Bell Collection.*

736-749. Single-barbed Arrow-heads, or possibly Knives, found in County Antrim, Ireland—Rev. G. R. Buick, 1887.

AE 750–752. Arrow-heads, $2\frac{1}{8}$, 2, and $1\frac{1}{16}$ in. long, all with stems, one from Velletri and two from Perugia, Italy—Sir Wm. Fettes Douglas, 1877, and Dr Robert Munro, 1888.

753. Small Arrow-head of Flint, with barbs and stem, found in the province of Aube, France—James Milu, 1881.

754–778. Arrow-heads, with stems, and a few with barbs, and a Flint Knife, from Abruzzi, Italy—Purchased 1888.

779–794. Arrow-heads, with barbs and stems, found in Ireland—Sir Herbert Eustace Maxwell, Bart., 1889.

795–1108. Implements, &c., of flint, found in Ireland, viz.—(**795–966**) thin flakes, &c.; (**967–1061**) chips and fragments; (**1062–1071**) worked implements, mostly elongated in form; (**1072–1078**) large scrapers; (**1079–1084**) elongated implements, worked on both edges; (**1085–1087**) a large semi-lunar shaped implement, an oval double-pointed, and an elongated implement; (**1088–1108**) large elongated and pointed implements or flakes, unworked—*Ibid.*

AE 751.

1109. A forged Arrow-head, made by "Flint Jack"—*Ibid.*

1110–1166. Arrow-heads of Flint, found at Faleria, Italy—Purchased 1888.

1167–1169. Large Lozenge-shaped Spear-head of Flint, imperfect at the point, and two pieces of pottery, ornamented with circular depressions, from a prehistoric station on the banks of the Oke, province of Riazanne, Russia—Dr Bajenoff, 1890.

1170–1230. Collection of rude Flint Implements and Flakes, from the superficial deposits at Larne, Antrim, Ireland—Dr Robert Munro, 1892.

1231–1262. Arrow-heads of hollow-based form, &c., Knives, worked Implements, &c., from Ireland—Sir H. E. Maxwell, 1889.

1263, 1264. Arrow-heads, with barbs and stems, from the Netherlands—W. Talbot Ready, 1890.

STONE AXE-HEADS.

On First Floor in two Floor Cases at East End of North Side.

[The pedantic name "Celt" which used to be applied to the axes of prehistoric times is now generally disused. The stone axes found in Scotland are chiefly of two forms, one with both ends nearly alike in width, and the other tapering from the width of the cutting edge to a bluntly pointed conical butt. They are made of almost every variety of stone, the harder and tougher kinds, however, being most usually selected. They are of all sizes, from $2\frac{1}{2}$ in. up to 16 in. in length, and of all degrees of fineness of finish, from the roughest chipping to the finest polish. Some have a cutting edge at both ends, others at one end only. A few are more flattened on one side than on the other, so as to give them an adze-like form. Flint axes are rare in Scotland, the flints obtained from the drift (which is in this country the only natural source of supply) being seldom of sufficient size. There are, however, a few axes of flint of considerable size and great perfection of form and finish. Others, of thin triangular form, are made of a finely-mottled stone, of greenish or greyish colour, and extreme hardness, almost resembling jadeite. The manner in which the stone axes were handled is shown by the mark of the handle still traceable on some of the specimens (see 26).

AF 1. Axe of Greenstone, $10\frac{1}{2} \times 3$ in., from Elginshire—Miss Dick Lauder, 1866.

AF 2. Axe of Felstone, $9\frac{1}{2} \times 3\frac{1}{2}$ in., from Claddock, Arran—A. Bryson, 1856.

3. Axe of Granite, 9×3 in., from Haddingtonshire—D. Laing, 1878.

4. Axe of Gneiss, $7\frac{1}{2} \times 3 \times 2$ in., from Keithhall, Aberdeenshire—Purchased 1881.

5–7. Axes from Aberdeenshire, viz.—(**5**) of granite, $8\frac{1}{2} \times 3\frac{1}{2} \times 2$ in. ; (**6**) of granite, $9\frac{1}{4} \times 3\frac{1}{4} \times 2$ in. ; (**7**) of gneiss, $10\frac{3}{4} \times 3\frac{1}{2} \times 1\frac{3}{4}$ in.—Purchased 1881.

8. Axe of Chlorite-schist, $11 \times 3\frac{1}{4} \times 2\frac{3}{4}$ in., damaged at both ends, from Balhousie, Panbride, Forfarshire—G. Cowe, 1874.

9. Axe of Porphyry, $7\frac{1}{2} \times 3 \times 1\frac{1}{4}$ in., imperfect at both ends, from Elginshire—Misses Dick Lauder, 1866.

10. Axe of Serpentine, $9\frac{1}{4} \times 3\frac{1}{4}$ in., roughly made, from Tingwall, near Scalloway, Shetland—James Urquhart, 1878.

11. Axe of Sandstone, $10\frac{1}{2} \times 4$ in., lower part polished, from Fala, Midlothian—Mrs John Scott, 1865.

AF 34. AF 35. AF 36.

12. Axe of Sandstone, $11\frac{1}{2} \times 3\frac{1}{2}$ in., upper part pecked, lower part smoothed, from Windshiels, Duns, Berwickshire—W. W. Campbell, M.D., 1870.

13. Axe of Felstone, $10 \times 3\frac{1}{2}$ in., from Gask, Turriff—P. Collier, 1869.

14. Axe of Greenstone, $6 \times 2\frac{1}{4}$ in., oval in section at broken end, from Cruden, Aberdeenshire—R. Dawson, 1869.

15, 16. Axes said to have been found with the Bronze Axe (DE 8) and the Stone Axe (AF 96) in the parish of Southend, Cantyre, viz.—(**15**) of greenstone, 7×3 in.; (**16**) of sandstone, $6 \times 2\frac{1}{4}$ in., weathered—Treasure Trove, 1862.

17. Axe of Kaolin-like Stone, $6\frac{1}{2} \times 2\frac{3}{4} \times 1\frac{1}{2}$ in., oval in cross-section, from Rhianbreck, Lairg, Sutherlandshire—Arthur Mitchell, M.D., 1877.

AF 18. Axe of Granite, $7\frac{3}{4} \times 3\frac{1}{4}$ in., from Kintore, Aberdeenshire—Purchased 1865.

19. Axe of Micaceous Schist, $7\frac{1}{2} \times 2\frac{3}{4}$ in., pecked surface, from Rosehill, Sutherlandshire—Lawson Tait, 1870.

20. Axe of indurated Claystone, $6\frac{1}{2} \times 2\frac{3}{4}$ in., oval in cross-section, from Upper Brownhill, Slains—Jas. Dalgarno, 1880.

21–23. Axes from Biggar Sheils, viz.—(**21**) of felstone, $9\frac{1}{2} \times 3$ in.; (**22**) of felstone, $9 \times 3\frac{1}{2}$ in.; (**23**) of felstone, $8 \times 3\frac{1}{2}$ in.—*Sim Collection*, Mrs White, 1882.

24. Axe of Red Sandstone, $8\frac{1}{2} \times 4$ in., of peculiar form, oval in cross-section, from Glenluce—Rev. Geo. Wilson, 1881.

25. Axe of Greyish Sandstone Pebble, $6\frac{5}{8} \times 2\frac{3}{4} \times 1$ in., much weathered, from Stonykirk, Wigtown—Rev. Geo. Wilson, 1881.

26. Axe of Greenstone, $6\frac{1}{2} \times 3$ in., bearing marks of a handle, from Dinwoodie-green, Dumfries—Purchased 1881.

27. Axe of Felstone, $6 \times 2\frac{1}{2}$ in., from Twynholm, Kirkcudbright—Rev. J. Milligan, 1868.

28. Axe of Greenstone, 8×3 in., from Tongland, Kirkcudbrightshire—Rev. John Milligan, 1868.

29. Axe of indurated Claystone, $7 \times 2\frac{3}{4}$ in., from Chapelheron, Whithorn, Wigtownshire — J. M'Connell, jun., 1872.

30. Axe of indurated Claystone, 8×2 in., with flattened edges, and showing mark of handle across the upper part, from Ervie, Wigtownshire—Peter Harris, 1872.

31. Axe of Greenstone, $6\frac{3}{4} \times 3$ in., from Kirkcolm, Wigtown — R. Blair, jun., 1881.

32–33. Axes of Greystone, viz.—(**32**) $8\frac{1}{2} \times 3$ in., from Gleniron; (**33**) $11\frac{1}{2} \times 3$ in., from Glenluce—Rev. George Wilson, 1876.

34. Axe of Felstone, polished, $13 \times 3\frac{3}{4} \times 2$ in., oval in the cross-section, from Kirklauchline, Wigtownshire — The Earl of Stair, 1877.

35–36. Axes from Drumour, Glenshee, Forfar, viz.—(**35**) of micaceous claystone, $15\frac{1}{2} \times 3\frac{3}{4}$ in.; (**36**) do., 13×3 in.—Major R. Thomas, 1870.

AF 50.

37. Axe of Greenstone, $13\frac{1}{2} \times 3\frac{1}{4}$ in., from Stirlingshire—John Buchanan, 1849.

38. Axe of Greenstone, $11\frac{1}{2} \times 3\frac{3}{4}$ in., from Tinto Hill, Lanarkshire—J. Aitken, 1860.

39. Axe of Greenstone, $10 \times 3\frac{1}{2}$ in., with flattened edges, slightly expanded at the butt, from Lagg, Dunure, Ayrshire—Francis Lightbody, 1880.

40, 41. Axes of Greenstone, from Inverness-shire, viz.—(**40**) $12\frac{1}{4} \times 4$ in; (**41**)

AF $9\frac{1}{2} \times 2\frac{1}{2}$ in., both from a cairn in the parish of Daviot—Fountaine Walker, 1865.

42. Axe of Greenstone, $12 \times 3\frac{3}{4}$ in., from Shetland—A. H. Rhind, 1860.

43. Axe of Serpentine, $10\frac{1}{2} \times 3\frac{1}{2}$ in., from Shetland—Wm. Erskine.

AF 51.

44. Axe of Porphyry, 9×3 in., from Shetland.

45. Axe of Greenstone, $6\frac{1}{4} \times 2\frac{3}{4}$ in., from Kintore—Purchased 1865.

46–47. Axes from Elginshire, viz.—(**46**) of greenstone, $8 \times 2\frac{1}{2}$ in.; (**47**) of basalt, $8 \times 3\frac{1}{4}$ in.—Miss Dick Lauder, 1866.

48. Axe of Micaceous Schist, $8 \times 3\frac{1}{2}$ in., from Cloister Seat, Udny, Aberdeenshire—C. S. Temple, 1863.

49. Axe of Grey Gneiss, $6\frac{1}{2} \times 2\frac{3}{4}$ in., surface weathered, from Daviot, Aberdeenshire—John Walker, 1867.

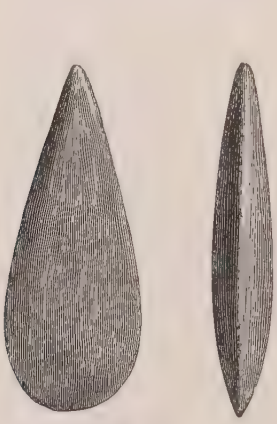
AF 50–52. Axes of Porphyritic Stone, viz.—(**50**) $6\frac{1}{2} \times 2$ in.; (**51**) $9 \times 3\frac{3}{4}$ in.; (**52**) $10\frac{1}{4} \times 2\frac{3}{4}$ in., from Tingwall, Shetland—Purchased 1881.

AF 52.

53, 54. Axes of Porphyritic Stone, each $9 \times 3\frac{3}{4} \times 1\frac{1}{2}$ in., oval, pointed at the butt, remarkable as being a pair exactly similar in material, shape, and size, locality unknown, but from Aberdeenshire—A. Walker, 1877.

55. Axe of Aphanite, $10\frac{1}{2} \times 3\frac{1}{4}$ in., oval in section, pointed at the butt, slightly flattened along the sides, from Lauder, Berwickshire—Robert Romanes, 1876.

AF 56. Axe of Green Mottled Stone, $8 \times 3\frac{1}{2}$ in., finely polished, found on the bank of the Ericht at Rattray, Perthshire—Robert Herdman, R.S.A., 1873.



AF 53.

AF 55.

57. Axe of Dark Greenstone, $8\frac{1}{4} \times 3\frac{1}{4}$ in., flat on one side, $\frac{3}{4}$ in. thick in the centre, from Glenluce—Rev. G. Wilson, 1871.

AF 57.

58. Axe of Yellowish-Grey Flint, $8\frac{1}{4} \times 1\frac{3}{8}$ in., chisel-shaped, imperfect at both ends, from Old Deer, Aberdeenshire—Purchased 1881.

59. Axe of Brownish-Grey Flint, $10 \times 2\frac{1}{2}$ in., from Folsetter, Birsay, Orkney—George Petrie, 1867.

60. Axe of Yellow Flint, $9\frac{1}{4} \times 2\frac{5}{8}$ in., finely polished, from Gilmerton, Athelstaneford, East Lothian—Francis Kinloch, 1782.

61–62. Axes of finely-polished Greyish Flint, $10 \times 2\frac{1}{2}$ in. and $7\frac{1}{4} \times 2\frac{1}{4}$ in., found together in digging a drain on the farm of Smerrick, Enzie, Banffshire—Purchased 1881.

63. Axe of polished Grey Flint, $6\frac{3}{4} \times 2\frac{1}{4}$ in., plano-convex in section, from Ferny Brae, Slains—James Dalgarno, 1874.

64. Axe of Greyish Flint, $7\frac{1}{2} \times 2\frac{1}{4}$ in., finely polished, locality unknown—David Hutchison, 1783.

65. Axe of Claystone, $5\frac{3}{4} \times 3\frac{1}{4}$ in., from Lochleven—Hon. R. Abercromby, 1860.

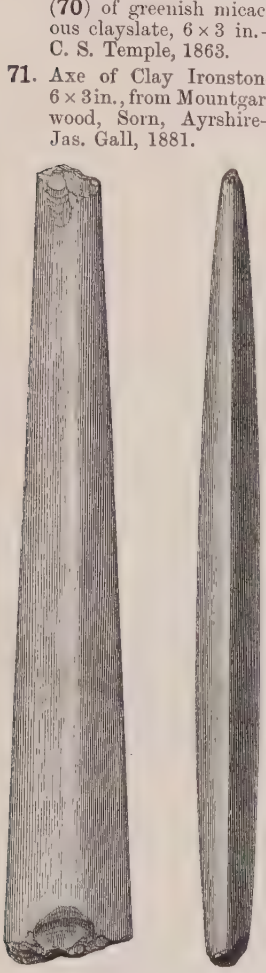
66. Axe of Syenite, $6\frac{1}{4} \times 3\frac{1}{2}$ in., from Twynholm, Kirkcudbright—Rev. J. Milligan, 1868.

67, 68. Axes of Greenstone, viz.—(**67**) $6\frac{3}{4} \times 2\frac{3}{4}$ in.; (**68**) $5\frac{1}{2} \times 2\frac{1}{4}$ in., found

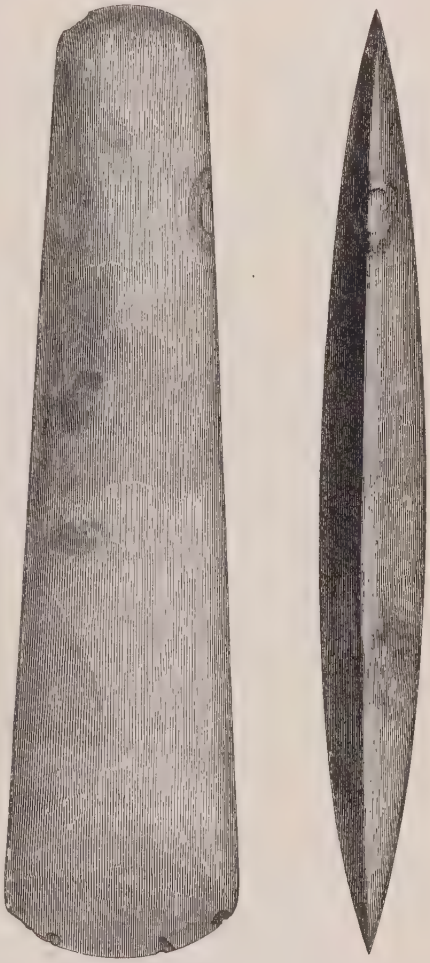
AF with two pairs of moulds for spear-heads, near Campbeltown, Argyllshire—Arthur Mitchell, M.D., 1864.

69, 70. Axes from Cloister Seat, Udny, Aberdeenshire, viz.—(**69**) of dark clayslate, $6\frac{1}{2} \times 3\frac{1}{4}$ in.; (**70**) of greenish micaceous clayslate, 6×3 in.—C. S. Temple, 1863.

71. Axe of Clay Ironstone, 6×3 in., from Mountgarswood, Sorn, Ayrshire—Jas. Gall, 1881.



AF 58.



AF 61.

72. Axe of Quartzite, $5\frac{3}{4} \times 3$ in., from Dalmeny, Linlithgowshire—R. Broomfield, 1866.

73. Axe of Serpentine, 6×3 in., from Shetland—A. H. Rhind, 1860.

74. Axe of fine-grained Sandstone, $5\frac{3}{4} \times 3$ in., from Fochabers, Elginshire—Purchased 1881.

AF 75. Axe of indurated Claystone, $5\frac{1}{2} \times 2\frac{3}{4}$ in., from Fordoun—Purchased 1877.

76. Axe of Sandstone, of unusual form, imperfect, $6 \times 2\frac{1}{2}$ in., from Unst, Shetland—T. Edmonston, 1871.

77. Axe of Greenstone, 3×2 in., from Girthon, Galloway—Rev. G. Murray, 1861.

78. Axe of Felstone, $3\frac{1}{2} \times 2$ in., from East Bonnington Mains, Mid-Lothian—Prof. Dan. Wilson, 1863.

AF 62.

79. Axe of Clayslate, $3\frac{1}{4} \times 1\frac{5}{8}$ in., flat, triangular, found with a flint spear-head at Tarland, Aberdeenshire—Hon. Arthur Gordon, 1865.

80. Axe of Felstone, $3\frac{1}{4} \times 1\frac{3}{4}$ in., from a cairn in Glenshee, Forfar—James Neish, 1870.

AF 63.

81. Axe of fine-grained Greenstone, $2\frac{3}{4} \times 1\frac{3}{4}$ in., from Letham Grange, Forfar—John Hay, 1860.

82. Axe of Jasper, 3×2 in., from Skye—John Tolmie, 1831.

83. Axe of Greenstone, $2\frac{3}{4} \times 1\frac{3}{4}$ in., from Skye—Rev. D. MacQueen, 1781.

84. Axe of Claystone, $2 \times 1\frac{1}{2}$ in., from Islay—Robert Graham, 1784.

85. Axe of fine-grained Greenstone, $3\frac{1}{4} \times 2\frac{1}{4}$ in., from Ormiston, Abdie, Fife—George Buist, 1866.

86. Portion of the pointed end of a finely-polished Axe of Green Avanturine, found near Castle Douglas—Thomas Forrest, 1782.

87. Axe of Silicious Sandstone, $3\frac{3}{4} \times 1\frac{1}{2}$ in., oval, pointed, finely polished, from Caithness—A. H. Rhind, 1860.

88-90. Axes from Urquhart, Elginshire, viz.—(88) of indurated clayslate,

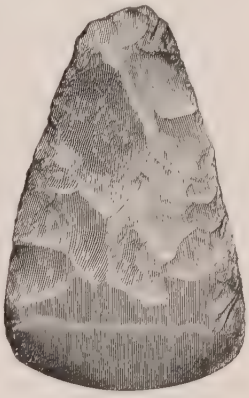
AF $2\frac{3}{4} \times 2$ in.; (89) of greenstone, $3\frac{1}{4} \times 1\frac{3}{4}$ in. ; (90) of greenstone, $2\frac{1}{4} \times 1\frac{3}{4}$ in. —Rev. James Morrison, 1872 4.

91. Axe of Porphyry, $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{4}$ in., from Urquhart—Purchased 1881.

92. Axe of Clayslate, $2\frac{1}{4} \times 1\frac{3}{4}$ in., from Skye.

93. Axe of Brownish Flint, $3 \times 1\frac{3}{4}$ in., from Meft, Urquhart, Elginshire—Rev. J. Morrison, 1871.

94. Axe of Grey Flint, $2\frac{1}{4} \times 1\frac{1}{2}$ in., from Fordoun —Purchased 1881.



AF 93.

95. Axe of Pale Grey Flint, $3 \times 1\frac{1}{2}$ in., from Alva, Banffshire—P. Collier, 1873.

96. Axe of Felstone, $3\frac{1}{4} \times 2$ in., said to have been found along with the axes 15, 16.—Treasure Trove, 1862.

97. Axe of Serpentine, $4\frac{1}{2} \times 2$ in., from Boggach, Strathdon, Aberdeenshire—R. Stuart, 1863.

98. Axe of Greenstone, $3\frac{1}{2} \times 2\frac{1}{2}$ in., from Glenmailen, Aberdeenshire.

99. Axe of Basalt, $3\frac{1}{4} \times 1\frac{1}{2}$ in., found near Elgin —Cosmo Innes, 1861.

100. Axe of Porphyritic Stone, adze-shaped, $2\frac{3}{4} \times 1\frac{3}{4} \times \frac{3}{4}$ in., from Shetland — Arthur Mitchell, M.D., 1877.

101. Axe of Greyish Flint, $3\frac{3}{4} \times 2\frac{1}{4}$ in., from Tarland, Aberdeenshire.

102. Axe of Clayslate, $3\frac{3}{4} \times 2\frac{1}{4} \times 1$ in., polished, from Aberdeenshire—Purchased 1881.

103. Axe of Basalt, $3\frac{1}{2} \times 2\frac{3}{4} \times \frac{3}{4}$ in., imperfect, from Aberdeenshire—Purchased 1881.

104. Axe of Flinty Slate, 4×2 in., imperfect at the butt, from Migvie, Aberdeenshire—J. Jeffrey, 1872.

105. Axe of Greenstone, $3\frac{3}{4} \times 2\frac{1}{2}$ in., from Loch of Kinnordy, Forfarshire—Rev. J. C. Haldane, 1880.

106. Axe of Micaceous Sandstone, $3\frac{1}{2} \times 2\frac{1}{4} \times \frac{3}{4}$ in., ground, butt flat, from King's Muir, near Forfar—Geo. Sim, 1877.

107. Axe of Claystone, $4 \times 2\frac{1}{4}$ in., from Brechin, Forfarshire—W. T. M'Culloch, 1868.

108. Axe of Clay Ironstone, $3\frac{3}{4} \times 2$ in., flat, from Ratho—Prof. D. Wilson, 1863.

109. Axe of Basalt, 4×2 in., from a moss near Bishopton, Renfrewshire—J. C. Roger, 1856.

110. Axe of Greenstone, $4\frac{3}{4} \times 1\frac{3}{4}$ in., from High Torrs, Glenluce—Rev. G. Wilson, 1876.

111. Lower portion of Axe of Diorite, $3\frac{1}{4} \times 2\frac{1}{4} \times 1\frac{1}{8}$ in., from Mark of Inch, Wigtownshire—Rev. G. Wilson, 1881.

112. Axe of Micaceous Sandstone, $4 \times 2\frac{1}{2}$ in., from Cloister Seat, Udny, Aberdeenshire—C. S. Temple, 1863.

113. Axe of Porphyry, $3\frac{1}{2} \times 2\frac{1}{4}$ in., from Old Deer, Aberdeenshire—Purchased 1881.

114. Axe of Greenstone, $3\frac{3}{4} \times 2$ in., faces flat, polished, from a cairn in Fifeshire—Prof. D. Wilson, 1863.

115. Lower portion of Axe of Greenstone, found near Tillicoultry Bridge, Clackmannanshire—Robert Bald, 1827.

AF 116. Lower portion of Axe of Greenstone, from Duddingston, Edinburgh—A. Kerr, 1860.

117. Axe of Porphyry, $4\frac{3}{4} \times 2\frac{3}{4}$ in., from Ayrshire—Prof. D. Wilson, 1863.

118, 119. Axes from Urquhart, viz.—(**118**) of greenstone, $5 \times 2\frac{1}{2}$ in.; (**119**) of hornblendic rock, $4\frac{1}{2} \times 2\frac{1}{2}$ in.—Rev. J. Morrison, 1872–4.

120. Axe of Greenstone, $4\frac{3}{4} \times 2\frac{1}{2}$ in., flat, triangular, from Newton Tilliecairn, Aberdeenshire.

121, 122. Axes from Cromar, viz.—(**121**) of Greenstone, $5\frac{1}{4} \times 2\frac{1}{2}$ in.; (**122**) of greenstone, $4\frac{3}{4} \times 2\frac{1}{2}$ in.—Dr A. Robertson, 1867.

123, 124. Lower portions of Axes, viz.—(**123**) of greenstone; (**124**) of grey gneiss, from Daviot, Aberdeenshire—John Walker, 1867.

125, 126. Axes of Greenstone, viz.—(**125**) 5×3 in.; (**126**) $5 \times 2\frac{1}{2}$ in., from the parish of Airlie—Rev. J. C. Haldane, 1880.

127. Axes of Silicious Sandstone, $4\frac{3}{4} \times 1\frac{1}{4}$ in., round and chisel-shaped, from Forfar—J. C. Roger, 1856.

128. Axe of Greyish Porphyry, $5\frac{1}{2} \times 2 \times 1\frac{1}{2}$ in., sides rounded, imperfect at cutting edge, from Shetland—A. Mitchell, M.D., 1877.

AF 134.

129. Axe of Greenish Porphyritic Stone, $4 \times 2 \times 1\frac{1}{4}$ in., sides rounded, from Shetland—A. Mitchell, M.D., 1877.

130. Axe of Porphyritic Stone, $5\frac{1}{4} \times 2\frac{3}{4}$ in., flat on one side, from Shetland—Mrs Hope, 1859.

131. Cast of an Axe of Grey Flint, $6\frac{1}{4} \times 2$ in., from Kintore, Aberdeenshire—John Sturrock, 1881.

132. Axe of Greyish Flint, $5\frac{1}{2} \times 2$ in., thin and flat, from Roxburgh—Joseph Watson, 1816.

133. Axe of Black Flint, 5×2 in., chisel-shaped, from Slipperfield, West Linton—Wm. Forbes, 1865.

134. Axe of Black Flint, $5\frac{1}{2} \times 2$ in., from Fordoun—Rev. James Brodie, 1872.

135. Cast of an Axe of Black Flint, $6\frac{1}{2} \times 2\frac{1}{4}$ in., found with beads (FN 27) in 1812, in Cruden, Aberdeenshire—J. Sturrock, 1880.

136. Axe of Flint, $5\frac{3}{4} \times 1\frac{3}{4} \times 1$ in., partly polished, from Half Mark, Wigtownshire—Rev. G. Wilson, 1881.

137. Axe of Greenstone, 5×2 in., from Linlithgow—Adam Dawson, 1880.

138. Axe of Greenstone, $5\frac{1}{4} \times 2\frac{1}{2}$ in., from Strachur, Argyllshire—J. Andrew, 1829.

139, 140. Axes of Felstone, viz.—(**139**) $4\frac{1}{2} \times 2\frac{3}{4}$ in.; (**140**) $5 \times 2\frac{3}{4}$ in., found at the bottom of a circular moat at Twynholm—Rev. John Milligan, 1868.

141–145. Axes from Aberdeenshire, viz.—(**141**) of sandstone, $5\frac{1}{4} \times 2\frac{1}{2}$ in., (**142**) cutting end of axe of greenstone; (**143**) cutting end of axe of sandstone—Purchased 1865; (**144**) of clayslate, $4\frac{1}{2} \times 2\frac{1}{4}$ in., (**145**) of greenstone, $4\frac{1}{2} \times 3\frac{3}{4}$ in., both from Cloister Seat, Udny—C. S. Temple, 1863.

146. Axe of Greenstone, $4\frac{3}{4} \times 2\frac{1}{2}$ in., from Kinross-shire—Purchased 1876.

147. Cutting end of Axe of Greenstone, from Dalhousie Mains—J. Horsburgh, 1852.

148. Axe of Felstone, $4\frac{1}{2} \times 2\frac{1}{2}$ in., from Redhall, Edinburgh.—Mr Inglis.

AF 149–156. Axes from Wigtownshire, viz.—(**149**) portion of axe of granite, from Loddanagapple ; (**150**) of claystone, $4\frac{5}{8} \times 2\frac{3}{8}$ in., from intrenchments, Mull of Galloway ; (**151**) of fine sandstone, $4\frac{3}{4} \times 3$ in., from Stonykirk ; (**152**) imperfect, $3\frac{1}{2}$ in. long ; (**153**) of fine Silurian schist, $4\frac{3}{4} \times 2\frac{1}{2}$ in., fractured, from Two Mark, Stoneykirk ; (**154**) of Silurian sandstone, $4\frac{1}{4} \times 2\frac{1}{4}$ in., from Mid Torrs ; (**155**) of gritty sandstone, $2\frac{5}{8} \times 1\frac{3}{4}$ in.; (**156**) of weathered stone, $1\frac{7}{8} \times 1\frac{7}{8}$ in.—Rev. George Wilson, 1881.

157–164. Axes from Aberdeenshire, viz.—(**157**) of micaceous sandstone, $7\frac{1}{2} \times 3$ in., cutting edge polished ; (**158**) of porphyritic stone, $7\frac{5}{8} \times 3\frac{1}{2}$ in., flat, polished ; (**159**) of diorite, $6\frac{3}{4} \times 3$ in., imperfect at either end ; (**160**) of micaceous sandstone, $6\frac{1}{8} \times 2\frac{7}{8}$ in., roughly pecked ; (**161, 162**) of micaceous sandstone, $5\frac{1}{4} \times 2\frac{1}{4}$ in. and $5\frac{1}{2} \times 2\frac{3}{8}$ in. ; (**163**) of greenstone, $3\frac{3}{4} \times 2$ in. ; (**164**) of schistose stone, rude, $4 \times 1\frac{1}{2}$ in.—Purchased 1891.

165. Axe of Felstone, $2\frac{3}{4} \times 1\frac{1}{16}$ in., polished, sides flat, cutting edge slightly imperfect, found near Forres, Elginshire—Purchased 1890.

166–168. Axes of Porphyry, viz.—(**166**) $7\frac{1}{4} \times 3$ in., cutting edge and butt imperfect, with rounded sides ; (**167**) $6\frac{1}{2} \times 3$ in., rudely formed, polished ; (**168**) $4 \times 2\frac{7}{8}$ in., polished, sides rounded, butt truncated—Deposited by Representatives of the late Gilbert Bain, 1887.

169. Axe of Claystone, 7×3 in., from Mersington, Berwickshire—Purchased 1883.

170. Portion of a Chisel-shaped Axe of Basalt, 2 in. long, from Morayshire—The Misses Dick Lauder, 1866.

171. Axe of Claystone, $6 \times 2\frac{1}{2}$ in., from Stobshiel, East Lothian—Dr J. A. Smith, 1882.

172. Axe of Greenstone, $6\frac{1}{2} \times 3 \times 1\frac{1}{2}$ in., from Blantyre, Lanarkshire—Purchased 1881.

173. Axe of Greenstone, $8\frac{1}{2} \times 3\frac{1}{2}$ in., from Loch Fada, Colonsay—Hugh Bowie, 1881.

174. Axe of Greyish Sandstone, $5\frac{1}{2} \times 2\frac{3}{4}$ in., from Keith Hall, Aberdeenshire—Dr John Sibbald, 1875.

175–190. Axes from Lanarkshire, viz.—(**175**) of claystone, $5\frac{1}{4} \times 2\frac{5}{8}$ in.; (**176**) of porphyry, $6\frac{3}{4} \times 3$ in., and (**177**) of greenstone, $4\frac{1}{2} \times 2\frac{1}{2}$ in., all from Coulter ; (**178**) of claystone, $5\frac{3}{4} \times 2\frac{3}{4}$ in., from Hartree ; (**179**) of felstone, $4\frac{1}{2} \times 2\frac{3}{8}$ in., from Winter Main, Biggar ; (**180, 181**) of felstone, $4\frac{1}{2} \times 2\frac{1}{4}$ in. and $4 \times 2\frac{1}{4}$ in., from Biggar Shiels ; (**182**) of felstone, $4\frac{1}{2} \times 2\frac{1}{2}$ in., broken at the edge, from East Mains ; (**183**) of greenstone, $6\frac{3}{4} \times 3$ in., and (**184**) of felstone, $3\frac{1}{4} \times 1\frac{3}{4}$ in., both from St John's Kirk, Roberton ; (**185**) of claystone, $4\frac{3}{8} \times 2$ in., and (**186**) of claystone, $4\frac{3}{4} \times 2\frac{3}{4}$ in., from Kilbucks ; (**187**) of claystone, $5\frac{3}{4} \times 2\frac{1}{4}$ in.; (**188**) of felstone, $5\frac{1}{2} \times 2\frac{3}{4}$ in., (**189**) of felstone, $4\frac{3}{4} \times 2\frac{3}{4}$ in., and (**190**) of felstone, $4\frac{3}{4} \times 3$ in., from Covington—*Sim Collection*, Mrs White, 1882.

191–199. Axes, viz.—(**191**) of claystone, $3\frac{3}{4} \times 1\frac{1}{2}$ in. ; (**192**) of porphyrite, $8\frac{1}{2} \times 2\frac{1}{4}$ in.; (**193**) of felstone, $3\frac{3}{4} \times 2\frac{1}{2}$ in.; (**194**) of greenstone, $3\frac{1}{2} \times 2\frac{1}{2}$ in.; (**195**) of felstone, $4\frac{3}{4} \times 2\frac{1}{2}$ in.; (**196**) of felstone, $4\frac{1}{2} \times 2\frac{1}{4}$ in.; (**197**) of felstone, $5\frac{1}{2} \times 2\frac{1}{2}$ in.; (**198**) of felstone, $2\frac{3}{4} \times 1\frac{3}{4}$ in.; (**199**) of felstone, $3\frac{1}{2} \times 2\frac{3}{4}$ in.—*Sim Collection, ibid.*

200. Axe of Green Jade-like Stone, $13\frac{1}{4} \times 4\frac{7}{8}$ in., polished, pointed butt, rounded cutting edge, locality unknown—Purchased 1889.

201. Axe of Greenstone, $6\frac{1}{2} \times 2\frac{1}{2}$ in., locality unknown.

202, 203. Axes, viz.—(**202**) of basalt, $6\frac{1}{4}$ in. long ; (**203**) of granite, $6\frac{1}{2}$ in. long, localities unknown—J. C. Wright, 1877.

204. Axe of Greenish Clayslate, $3\frac{1}{2} \times 2$ in., butt rounded, locality unknown—R. Miln, 1881.

AF 205. Axe of Basalt, $4\frac{1}{2} \times 2\frac{1}{2}$ in.—Earl of Buchan, 1782.

206. Axe of Porphyry, $4\frac{1}{2} \times 2$ in., partly polished, locality unknown—Royal Society of Edinburgh, 1860.

207. Axe of Greenstone, $4\frac{1}{2} \times 2\frac{1}{2}$ in., from Braemar—A. Kerr, 1882.

208. Axe of Granite, $8\frac{1}{2} \times 3\frac{3}{4}$ in., from Glenluce, Wigtownshire—Purchased 1882.

209. Axe of Greenstone, from Carnoustie, Forfarshire—Allan Mathewson, 1882.

210. Axe of Clayslate, $4\frac{3}{4} \times 2\frac{1}{4}$ in., from Kincardineshire—Purchased 1882.

AF 226.

211. Axe of Schist, ground to a cutting edge at both ends, $4\frac{1}{2} \times 1\frac{1}{4}$ in., from Pitcarvy, Bervie—Purchased 1882.

212, 213. Axes, viz.—(**212**) of indurated claystone, $8\frac{3}{4} \times 2\frac{5}{8}$ in., from Greenlaw, Berwick—Rev. Geo. Wilson, 1883; (**213**) of granite, $6\frac{3}{4} \times 2\frac{3}{4}$ in., from High Stock, Kirkmaiden, Wigtownshire—Purchased 1883.

214–217. Axes from Aberdeenshire, viz.—(**214** of sandstone, $9\frac{1}{4} \times 3$ in., from Corrennie, Cluny; (**215**) of granitic stone, $8\frac{3}{4} \times 3$ in., from Corse, Coull; (**216**) of gneiss, $7\frac{3}{4} \times 2\frac{3}{4}$ in., from Williamstown, Kincardine O'Niel; (**217**) of gneiss, $7\frac{1}{2} \times 3$ in., from Mortlach, Lumphanan — Purchased 1883.

218. Axe of Greenstone, $6\frac{1}{2} \times 2\frac{3}{4}$ in., from Harrow Hope, Stobo, Peeblesshire—Purchased 1883.

219–233. Axes from Shetland, viz.—(**219**) of serpentine, $2 \times \frac{1}{2}$ in., chisel-shaped; (**220**) of porphyry, $2\frac{3}{4} \times 1\frac{1}{4}$ in.; (**221**) of greenstone, $4\frac{1}{2} \times 2$ in.; (**222**) of greenstone, $3\frac{1}{4} \times 1\frac{3}{4}$ in., upper part broken off; (**223**) of greenstone, $6 \times 2\frac{1}{8}$ in., adze-shaped; (**224**) of porphyry, $7\frac{1}{2} \times 3\frac{1}{8}$ in., adze-shaped; (**225**) of porphyry, $7\frac{1}{4} \times 3\frac{1}{2}$ in., adze-shaped, (**226**) of porphyry, $11\frac{1}{4} \times 4\frac{1}{4}$ in.; (**227**) of porphyry, $14\frac{1}{4} \times 5$ in., adze-shaped; (**228**) of serpentine, $11\frac{5}{8} \times 3\frac{1}{8}$ in.; (**229**) of serpentine, $10\frac{1}{4} \times 3\frac{3}{8}$ in.; (**230**) of porphyry, $5\frac{3}{4} \times 3\frac{1}{4}$ in.; (**231**) of greenstone, $7\frac{1}{4} \times 2\frac{3}{4}$ in., lower part broken off; (**232**) of serpentine, $10\frac{1}{4} \times 3\frac{1}{4}$ in., found in a peat moss above Grimaster; (**233**) of serpentine, 8×3 in., from Whalsay—*Lerwick Collection*, Purchased, 1882.

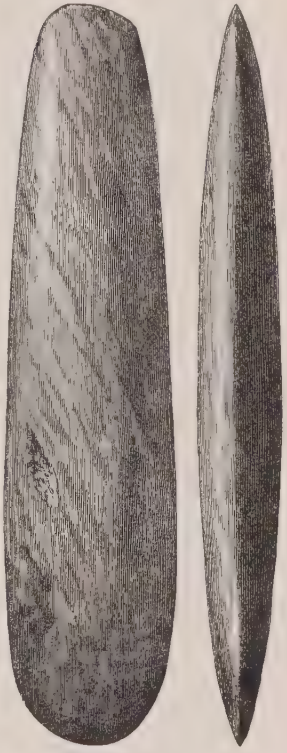
234–238. Axes from Wigtownshire, viz.—(**234**) of granite, $9\frac{1}{2} \times 3\frac{3}{4}$ in., with three longitudinal facets, found at Killiness; (**235**) of flint, $5\frac{1}{4} \times 2\frac{1}{4}$ in.,

AF cutting edge imperfect, found at Penn's Hill, Maryport; (**236**) of felstone, $7\frac{1}{4} \times 3$ in., from Auchabrick, Ardwell; (**237**) of felstone, $10\frac{1}{2} \times 3\frac{1}{2}$ in.; (**238**) of felstone, $4\frac{1}{4} \times 2\frac{1}{4}$ in., one edge flat, the other rounded, from High Curghie, Kirkmaiden—Wm. Gemmill, M.B., 1883.

239, 240. Axes from Aboyne, Aberdeenshire, viz.—(**239**) of sandstone, partly polished, $5\frac{7}{8} \times 2\frac{5}{8}$ in.; (**240**) of greenstone, polished, $8\frac{1}{2} \times 3\frac{1}{2}$ in.—Purchased 1883.

AF 227.

241. Polished Axe of Felspar, $5\frac{3}{8} \times 3$ in., from the Loch of Menteith, Perthshire—Purchased 1883.



AF 228.

242-244. Axes of Felstone, viz.—(**242**) 5×3 in., with flat sides; (**243**) $4\frac{1}{4} \times 2\frac{1}{8}$ in., chipped on one side; (**244**) $3\frac{1}{2} \times 1\frac{7}{8}$ in., with pointed butt, all from Newlands, on the Lyne Water, Peeblesshire—Purchased 1883.

245. Axe of Flinty Slate, 5×3 in., ground smooth and with sharp edge, from Mellerstein—Purchased 1884.

AF 246. Axe of Greenstone, $11 \times 3\frac{1}{2}$ in., with rough and pecked surface, from Earlston, Berwickshire—Purchased 1884.

247. Axe of Felstone, $3\frac{1}{4} \times 2$ in., from Lauder Moor—J. Hardy, 1884.

248. Axe of Greenstone, $3 \times 1\frac{3}{4}$ in., from Ratho, near Edinburgh—Purchased 1884.

249. Axe of Felstone, $7 \times 2\frac{1}{2}$ in., butt pointed and sharpened, from Hill of Edzell, Forfarshire—Rev. D. Rose, 1884.

250. Polished Axe of Greenstone, $7\frac{1}{2} \times 3\frac{1}{4}$ in., from Largo—R. Dundas, 1884.

AF 229.

AF 232.

251, 252. Polished Axes, viz.—(**251**) of felstone, $10 \times 3\frac{1}{2}$ in., from Burnhouse, Wiston, Lanarkshire; (**252**) of felstone, $8 \times 2\frac{3}{4}$ in., from Castlehill, Peeblesshire—Purchased 1884.

253. Axe of Felstone, 3×2 in., from Morton Farm, near Ferry Port, Fifeshire—Purchased 1884.

254. Axe of Felstone, $3\frac{1}{8} \times 1\frac{1}{2}$ in., cutting edge partly broken, from Dhuloch, Kirkcolm, Wigtownshire—Purchased 1884.

255. Axe of Chipped Flint with ground cutting edge, $5\frac{5}{8} \times 2$ in., found near Beauly—Purchased 1884.

256. Axe of Felstone, one side curved irregularly, $6\frac{3}{4} \times 2\frac{5}{8}$ in., from Lamington, Lanarkshire—Purchased 1884.

257. Axe of Serpentine, $2\frac{1}{2} \times 2$ in., cutting edge imperfect on one side, from Inverness-shire—Purchased 1884.

AF 258. Axe of Greenstone, $7 \times 2\frac{3}{4}$ in., cutting edge worn and rounded, from Hermiston, Mid-Lothian—Purchased 1884.

259. Axe of Greenstone, $8\frac{3}{4} \times 2\frac{1}{8}$ in., convex on one side, flat on the other, finely ground and polished, locality unknown—Purchased 1884.

260. Axe of Felstone, $5\frac{5}{8} \times 2\frac{5}{8}$ in., edges ground flat, from Kirkcowan, Wigtownshire—Purchased 1884.

261. Axe of Granite, $4 \times 2\frac{1}{4}$ in., perfect, finely polished, from Carlops, Mid-Lothian—Purchased 1884.

262. Axe of Quartz, $2\frac{3}{4} \times 1\frac{3}{4}$ in., cutting edge imperfect, from Penicuik, Edinburghshire—Purchased 1884.

263–266. Polished Axes from Fifeshire, viz. —(**263**) of basalt, $3\frac{3}{4} \times 1\frac{1}{2}$ in.; (**264**) of basalt, $3\frac{1}{2} \times 2\frac{1}{4}$ in.; (**265**) of flinty slate, $3\frac{1}{2} \times 2$ in., from Auchtermuchty; (**266**) of porphyry, $3\frac{3}{4} \times 1\frac{3}{4}$ in., adze-shaped — Purchased 1884.

267. Axe of Greenstone, $5\frac{1}{4} \times 2$ in., plano-convex section, from Little Barras, Drumlithie, Kincardineshire — Alexander Thomson, 1884.

268. Adze-shaped Axe of granite, $2\frac{3}{4} \times 1\frac{5}{8}$ in., from Burnhouse, Longhope, Orkney—Rev. James Russell, 1885.

269. Axe of Claystone, $6\frac{7}{8} \times 2\frac{7}{8}$ in., slightly chipped on each end, from Craigmillar, Edinburghshire—Purchased 1885.

270. Axe of Porphyry, $2\frac{1}{2} \times 1\frac{3}{4}$ in., rudely formed, from Haddingtonshire — Purchased 1885.

AF 267.

271. Axe of Serpentine, $6\frac{3}{4} \times 2\frac{5}{8}$ in., cutting edge chipped, from Eccles Moor, Berwickshire—Purchased 1886.

272. Axe of Flint, $8\frac{1}{4} \times 2\frac{3}{8}$ in., cutting edge partly polished, from Smiddy Field, New Keig, Alford, Aberdeenshire—Purchased 1886.

273. Axe of Basalt, $6\frac{1}{2} \times 3$ in., butt roughened by pecking, cutting edge polished, from Mill of Coull, Tarland, Aberdeenshire—Purchased 1886.

274, 275. Axes of Granitic Porphyry, said to be from Renfrewshire, viz.—(**274**), $5 \times 2\frac{1}{4}$ in., polished; (**275**) $4\frac{3}{8} \times 2\frac{1}{4}$ in., slightly chipped and polished—Purchased 1886.

276, 277. Axes from Renfrewshire, viz.—(**276**) of sandstone, $4\frac{1}{2} \times 2\frac{1}{2}$ in., from Ellerslie; (**277**) of porphyry, $5\frac{1}{2} \times 2\frac{3}{8}$ in., roughly ground—Purchased 1886.

278. Lower portion of an Axe of Porphyritic Stone, $2\frac{1}{2}$ in. across cutting end, polished, from Berwickshire—Purchased 1886.

AF 279. Axe of Claystone, $6\frac{3}{8} \times 3$ in., butt fractured, polished, from Milnegraden, Berwickshire—Purchased 1886.

280. Axe of Porphyry, $3\frac{1}{2} \times 1\frac{3}{4}$ in., with polished faces, from Renfrewshire—Purchased 1886.

281. Axe of Basalt, $3\frac{7}{8} \times 2$ in., polished, from Aberdeenshire—Purchased 1886.

282. Axe of Greenstone, $6\frac{5}{8} \times 2\frac{7}{8}$ in., chipped, cutting edge blunt, from Yetholm, Roxburghshire—Purchased 1886.

283. Axe of Greenstone, $3\frac{7}{8} \times 2\frac{3}{4}$ in., fractured, from Gullane Point, Haddingtonshire—Mrs Whytock, 1886.

284. Axe of Greenstone, $5\frac{3}{8} \times 2\frac{1}{2}$ in., polished, from Auchterhouse, near Dundee—Purchased 1886.

285, 286. Axes found at Fordoun, Kincardineshire, viz.—(**285**) of greenstone, $11\frac{1}{4} \times 3\frac{1}{4}$ in., cutting edge polished, butt fractured; (**286**) of felstone 5×2 in., polished—Purchased 1886.

287. Axe of Basalt, $10 \times 3\frac{1}{4}$ in., polished, cutting edge fractured, locality unknown—Purchased 1886.

288. Axe of Felstone, $4\frac{3}{4} \times 2$ in., finely formed and polished, from Fearn, Ross-shire—R. B. Æ. Macleod, 1887.

289. Axe of Claystone (burnt), $3\frac{3}{8} \times 2\frac{1}{4}$ in., from South Ronaldsay, Orkney—Purchased 1887.

290. Axe of Quartzite, $6\frac{1}{8} \times 3$ in., finely polished, said to have been found in a cist at Lochearnhead, Perthshire—Purchased 1887.

291. Axe of Serpentine, $5\frac{3}{8} \times 2\frac{7}{8}$ in., with double cutting edge, finely polished, from Sanday, Orkney—Purchased 1887.

292. Axe of Claystone, $3\frac{5}{8} \times 2\frac{1}{4}$ in., from Saughtree, Roxburghshire—Purchased 1887.

293. Axe of Claystone, $7\frac{1}{2} \times 2\frac{7}{8}$ in., polished, from Convil Hill, Dufftown, Banffshire—Purchased 1887.

294, 295. Axes of Felstone, from West Kilbride, Ayrshire, viz.—(**294**) $3\frac{1}{4} \times 2\frac{3}{8}$ in., partly polished; (**295**) portion only imperfect at both ends—Purchased 1887.

296. Axe of Flint, $5\frac{3}{4} \times 2\frac{1}{8}$ in., finely polished, with double cutting edge, from Biggar, Lanarkshire—Purchased 1887.

297. Axe of Felstone, $6\frac{1}{2} \times 2\frac{5}{8}$ in., polished, slightly chipped, sides flat, from West Kilbride, Ayrshire—Purchased 1887.

298. Axe of Felstone, $4\frac{5}{16} \times 2\frac{3}{16}$ in., cutting edge chipped, polished, from Overhowden, Oxton, Lauder, Berwickshire—Purchased 1888.

299. Axe of Flint, $1\frac{3}{4} \times 1\frac{3}{8}$ in., rudely formed, partly polished on each face, from Tannadice, Forfarshire—Purchased 1887.

300-309. Axes from Aberdeenshire, viz.—(**300**) of flint, $2\frac{13}{16} \times 1\frac{1}{2}$ in., cutting edge polished, from Newbarns, Meldrum; (**301**) of flint, $3 \times 1\frac{11}{16}$ in., cutting edge polished, from Feeddale Farm, Keithhall; (**302**) of sandstone, $4\frac{11}{16} \times 1\frac{3}{4}$ in., polished, from Barra Hill; (**303**) of greenstone, $4\frac{1}{2} \times 2\frac{1}{8}$ in., cutting edge polished, from Heatherwick, Keithhall; (**304**) of felstone, $3\frac{3}{4} \times 3\frac{5}{16}$ in., polished, the butt worn by use as a hammer-stone, from Redhouse, Bourtie; (**305**) of granitic stone, $5\frac{1}{16} \times 2\frac{1}{16}$ in., (**306**) of granitic stone, $5\frac{15}{16} \times 2\frac{3}{4}$ in., polished, both from Inveramsay; (**307**) of granitic stone, $6\frac{11}{16} \times 2\frac{3}{4}$ in., (**308**) of basalt, $7\frac{1}{8} \times 2\frac{3}{4}$ in., butt imperfect, both from Mains of Barras, Bourtie; (**309**) of decomposed granitic stone, $7\frac{7}{8} \times 3$ in., cutting edge worn, from Gordonstone, Auchterless—Purchased 1888.

AF 310. Adze of fine-grained Sandstone, $4\frac{1}{8} \times 2\frac{1}{4}$ in., cutting edge blunt, from Hamilton, Lanarkshire—Purchased 1888.

311, 312. Axes from Aberdeenshire, viz.—(**311**) of granitic stone, $7\frac{7}{16} \times 2\frac{15}{16}$ in., cutting edge polished, from Dinnet; (**312**) of fine sandstone, $5\frac{1}{16} \times 2\frac{1}{4}$ in., cutting edge polished, from Coull—Purchased 1888.

313–315. Axes from Wigtownshire, viz.—(**313**) of brownish flint, $3\frac{7}{8} \times 2\frac{1}{16}$ in., finely polished, butt fractured and imperfect, from Wellhouse Farm, Kirkcolm; (**314**) of felstone, $4\frac{1}{16} \times 2\frac{3}{16}$ in., rudely formed, fractured, polished, from Ardwell, Kirkcolm; (**315**) of coarse Silurian sandstone, $7\frac{5}{8} \times 3\frac{3}{16}$ in., cutting edge polished, from Farm of Float, Stoneykirk—John M'Meekan, 1889.

316. Axe of Greenstone, $5\frac{3}{4} \times 2\frac{3}{4}$ in., polished, from Kilbarchan, Renfrewshire—Purchased 1888.

317–321. Axes, viz.—(**317**) of claystone, $4 \times 2\frac{1}{16}$ in., polished, from East Calder, near the river Almond, Edinburghshire; (**318**) of serpentine, $3\frac{13}{16} \times 1\frac{7}{8}$ in., polished, butt and cutting end imperfect, from Croftnahaven, Abernethy, Strathspey; (**319**) of fine sandstone, $4\frac{3}{16} \times 2\frac{3}{8}$ in., polished, fractured on one side, from Loanhead, Cairnie, Aberdeenshire; (**320**) of granitic stone, $4 \times 2\frac{1}{4}$ in., weathered, found near the Bridge at Cooper's Ditch, Lossiemouth, Morayshire; (**321**) of claystone, $2\frac{5}{16} \times 1\frac{1}{16}$ in., polished, from Farm of Gaich, Grantown, Strathspey—*Linn Collection*, Purchased 1888.

322. Axe of Claystone, $6\frac{1}{4} \times 2\frac{9}{16}$ in., finely ground, from Freugh, Stoneykirk, Wigtownshire—Purchased 1888.

323, 324. Axes, viz.—(**323**) of fine green claystone, $2\frac{15}{16} \times 2\frac{3}{16}$ in., polished, butt imperfect, from Dulnain Bridge, near Grantown; (**324**) cutting end of an axe of porphyry, polished, found at Grantown, Inverness-shire—*Linn Collection*, Purchased 1888.

325–335. Axes, from Wigtownshire, viz.—(**325**) of flint, $2\frac{1}{2} \times 1\frac{7}{8}$ in., cutting edge polished, from Drury Lane; (**326**) of claystone, $3\frac{3}{4} \times 1\frac{11}{16}$ in., polished, butt imperfect, from Grennan, Kirkmaiden; (**327**) of quartzose sandstone, $3\frac{5}{8} \times 2\frac{1}{8}$ in., from Glenluce Sandhills; (**328**) of claystone, $4\frac{9}{16} \times 2\frac{1}{4}$ in., slightly fractured, from Arbrack; (**329**) of granitic stone, $6\frac{1}{16} \times 2\frac{5}{8}$ in., adze-shaped, from Croach; (**330**) of felstone, $6\frac{1}{2} \times 2\frac{3}{8}$ in., sides flat, butt and cutting edge fractured, from Airies Moss, Kirkinner; (**331**) of felstone, $6\frac{7}{8} \times 2\frac{13}{16}$ in., pointed butt, polished, finely formed, (**332**) of felstone, $5\frac{1}{4} \times 3\frac{1}{8}$ in., much weather-worn, both from Drummore, Kirkinner; (**333**) of felstone, $7\frac{3}{16} \times 2\frac{13}{16}$ in., weathered, from Orchardton; (**334**) of felstone, $7\frac{1}{2} \times 3\frac{3}{16}$ in., cutting edge fractured, from Muntlock; (**335**) butt end of axe of felstone, from Blairbuy—Sir Herbert Eustace Maxwell, 1889.

336. Axe of Silicious Stone, $11\frac{3}{4} \times 2\frac{15}{16}$ in., finely polished, from Perthshire—*Ibid.*

337. Cutting end of an Axe of Claystone, polished, found at Arbrack, Wigtownshire—*Ibid.*

338. Cutting end of Axe of Mottled Claystone, from Tannadice, Forfarshire—Purchased 1888.

339. Portion of Axe of Flint, found at Livingstone, Linlithgowshire.—*Linn Collection*, Purchased 1888.

340, 341. Axes of Claystone from Kippen, Stirlingshire, viz.—(**340**) $8\frac{5}{8} \times 3\frac{3}{8}$ in., polished, sides flat; (**341**) $4\frac{5}{16} \times 1\frac{15}{16}$ in., cutting edge blunt, polished—Purchased 1888.

342. Axe of Serpentine, $2\frac{7}{8} \times 1\frac{3}{8}$ in., polished, from Aberdeenshire—Purchased 1888.

AF 343. Axe of Felstone, $4\frac{1}{2} \times 2\frac{3}{16}$ in., polished, sides slightly flat, from Alva, Stirlingshire—Purchased 1888.

344–348. Axes from Aberdeenshire, viz.—(**344**) of greenstone, $5\frac{1}{4} \times 2\frac{1}{2}$ in., sides flat, from Lumphart, Daviot; (**345**) of compact sandstone, 5×2 in., from Pitcaple; (**346**) of claystone, $3 \times 1\frac{5}{8}$ in., from Braeside, Gask, Turriff; (**347**) of basalt, $3\frac{3}{4} \times 2\frac{3}{8}$ in., polished, butt imperfect; (**348**) of porphyritic stone, $2\frac{3}{4} \times 2\frac{5}{8}$ in., butt imperfect, cutting edge fractured—Purchased 1888.

349–363. Axes from Aberdeenshire, viz.—(**349**) of felstone, $7\frac{1}{2} \times 2\frac{1}{2}$ in., faces polished; (**350**) of gneiss, $7\frac{5}{8} \times 2\frac{7}{8}$ in., cutting edge polished;

AF 329.

(**351**) of gneiss, $7\frac{5}{8} \times 2\frac{1}{2}$ in., cutting edge partly polished; (**352**) of greenstone, $6\frac{3}{8} \times 2\frac{3}{4}$ in., surface rough, butt slightly imperfect; (**353**) of schistose rock, $6\frac{1}{2} \times 2\frac{5}{8}$ in., polished, a portion of one face broken away; (**354**) of granitic stone, $5\frac{1}{2} \times 2\frac{5}{8}$ in., surface roughly weather-worn; (**355**) of greenstone, $5\frac{7}{8} \times 2\frac{1}{8}$ in., cutting edge slightly polished; (**356**) of fine green claystone, $6 \times 2\frac{1}{2}$ in., polished, irregularly formed; (**357**) of granitic stone, $5 \times 2\frac{1}{4}$ in., surface roughly weathered; (**358**) of green-

AF stone, $5\frac{1}{4} \times 2\frac{1}{2}$ in., blunted cutting edge, butt imperfect; (**359**) of greenstone, $4\frac{5}{8} \times 2\frac{3}{4}$ in., partly polished; (**360**) of green claystone, $4\frac{1}{2} \times 2\frac{1}{4}$ in., cutting edge blunted; (**361**) of compact green claystone, $4\frac{1}{8} \times 2\frac{1}{4}$ in., polished, cutting edge and butt slightly chipped; (**362**) of worn granitic stone, $4\frac{3}{8} \times 2$ in.; (**363**) of micaceous stone, 4×2 in.—Purchased 1889.

364. Axe of Porphyritic Stone $7\frac{7}{8} \times 3\frac{1}{4} \times 2\frac{7}{16}$ in., polished, found at Glen Clova, Forfarshire—Purchased 1889.

365. Axe of Sandstone, $5\frac{3}{4} \times 2\frac{3}{16}$ in., polished, from Pitcullie, Fifeshire—Purchased 1889.

366. Axe of Greenish Quartz, $7\frac{5}{16} \times 3\frac{3}{16} \times 1\frac{1}{16}$ in., with round pointed butt, finely polished, sides sharp, slightly fractured on cutting edge, from Comrie Farm, near Drummond Hill, Aberfeldy, Perthshire—Purchased 1889.

367. Axe of Micaceous Sandstone, $5\frac{1}{16} \times 2\frac{1}{2}$ in., with polished faces and rounded sides, from Garvald, Haddingtonshire—Purchased 1889.

368. Axe of Weathered Claystone, $2\frac{3}{16} \times 1\frac{7}{8}$ in., from Bowmont Water, in the Cheviots—Purchased 1889.

369. Axe of Greenish Quartz, $5\frac{3}{4} \times 2\frac{9}{16}$ in., with finely polished faces, cutting edge slightly fractured—Charles Jenner, 1890.

370. Axe of Micaceous Claystone, $4\frac{7}{8} \times 2\frac{1}{4}$ in., cutting edge sharp, sides flat, faces polished, from Pittentrail, Rogart, Sutherlandshire—Purchased 1889.

371. Cutting end of polished Axe of Greenstone, fractured on the edge, from Culloden, Inverness-shire—Purchased 1889.

372-375. Axes from Perthshire, viz.—(**372**) of veined slate, $12 \times 2\frac{3}{4}$ in., finely polished; (**373**) of clayslate, $4\frac{3}{4} \times 2\frac{1}{8}$ in., polished, cutting edge slightly imperfect and blunt, from Steavins, Dunsinane; (**374**) of veined slate, $2\frac{9}{16} \times 1\frac{3}{4}$ in., polished, with flattish sides, cutting edge slightly chipped, and (**375**) of veined slate, $2\frac{7}{16} \times 1\frac{1}{16}$ in., polished, sides rounded, butt truncated, both from Rait—*Sturrock Collection*, Purchased 1889.

376-379. Axes from Forfarshire, viz.—(**376**) of flint, $5\frac{1}{16} \times 2\frac{1}{2}$ in., polished on each face at the cutting edge, the remaining portions of both faces chipped, from Newtown Affleck, Monikie; (**377**) of flint, $1\frac{11}{16} \times 1$ in., partly polished at the cutting edge, the remaining portions of both faces chipped, the sides sharp, from Affleck, Monikie; (**378**) of flint, $5\frac{5}{8} \times 2$ in., polished at cutting end, the remaining portions chipped, sides sharp, found near Dundee; (**379**) of veined slate, $5\frac{5}{16} \times 2\frac{9}{16}$ in., polished, sides flat, cutting edge chipped, butt imperfect, found near Montrose—*Sturrock Collection*, Purchased 1889.

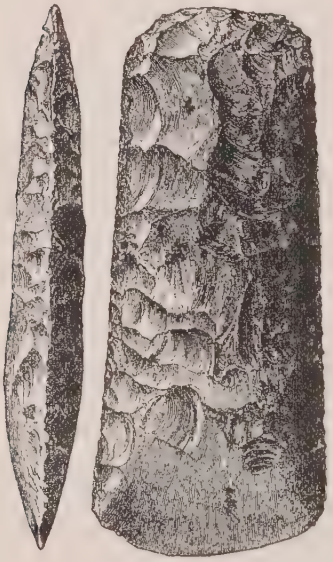
380-388. Axes from Aberdeenshire, viz.—(**380**) of flint, $2\frac{5}{16} \times 1\frac{5}{16}$ in., cutting edge polished, from Ellon; (**381**) of felstone, $4\frac{9}{16} \times 2\frac{1}{8}$ in., polished, butt pointed, from Blindfaulds, Fyvie; (**382**) of veined slate, 4×2 in., polished, from Aboyne; (**383**) of porphyry, $2\frac{5}{16} \times 1\frac{3}{4}$ in., polished, from Huntly; (**384**) of felstone, $4\frac{3}{8} \times 2\frac{5}{8}$ in., polished, butt square ended, from Blindfaulds, Fyvie; (**385**) of greenstone, $7\frac{1}{4} \times 3\frac{1}{16}$ in., partly polished, from Ellon; (**386**) of weathered granitic stone, $5\frac{1}{2} \times 2\frac{1}{4}$ in., from Windy Hills, Fyvie; (**387**) of granite, $7\frac{3}{4} \times 2\frac{7}{8}$ in., polished, from Auchterless; (**388**) of greenstone, $13 \times 3\frac{1}{8}$ in., polished at the cutting edge, the butt tapering, from Barmekin—*Sturrock Collection*, Purchased 1889.

389. Axe of Diorite, $6\frac{5}{16} \times 2\frac{5}{16}$ in., cutting edge polished, from Kincardineshire—J. Crabb Watt, 1890.

390. Axe of Basaltic Stone, $10\frac{1}{4} \times 3\frac{1}{4}$ in., polished, sides flattish, locality unknown—Purchased 1890.

AF 391, 392. Axes, viz.—(**391**) of granitic stone, $7\frac{1}{2} \times 3$ in., cutting edge oblique, faces polished, sides rounded, said to be from Brechin, Forfarshire; (**392**) of felstone, $6 \times 2\frac{1}{16}$ in., faces polished, sides rounded, butt tapering, locality unknown—Purchased 1890.

393. Axe of Veined Slate, $4\frac{1}{16} \times 2\frac{1}{4}$ in., polished, butt and cutting edge



AF 376.

AF 377.

slightly fractured, from Onich, Nether Lochaber, Argyllshire—Rev. Alexander Stewart, 1890.

394. Axe of Felstone, $7\frac{1}{8} \times 2\frac{3}{4}$ in., cutting edge imperfect, polished, butt pointed, from Polmont, Stirlingshire—Maj.-Gen. Robert Warden, C.B., 1882.

395. Axe of Porphyritic Stone, $12\frac{3}{8} \times 3\frac{3}{4}$ in., polished, sides flat, butt worked to a blunt cutting edge, from Kirkcolm, Glenluce, Wigtownshire—Deposited by the Earl of Stair, 1885.

396. Axe of Variegated Porphyry, $12\frac{3}{4} \times 4\frac{3}{4}$ in., cutting edge slightly expanded, polished, perfect, butt pointed, found in Northmavine, Shetland—Deposited by the Representatives of the late Gilbert Bain, 1887.

397. Axe of Porphyry, $9\frac{1}{2} \times 2\frac{5}{8}$ in., butt pointed, cutting edge expanded, polished, from Shetland—Deposited by Sir Alexander Christison, 1889.

398. Axe of Felstone, $5\frac{1}{8} \times 2\frac{5}{8}$ in., polished, sides rounded, from Campbeltown, Argyllshire—Purchased 1890.

STONE AXES.

[From other European Countries for comparison.]

Arranged on North Side of Second Floor.

AG 1, 2. Axes, viz.—(**1**) axe of fine-grained greenstone, $11\frac{1}{2} \times 4\frac{1}{4}$ in., finely formed and finely polished, from Cornwall—A. H. Rhind, 1860; (**2**) axe of greenstone, $5\frac{3}{4} \times 2\frac{3}{4}$ in., polished, from Aldborough, Yorkshire—Godfrey Meynell, 1820.

3–359. Axes, varying from $2\frac{1}{4}$ in. in length to $14\frac{1}{4}$ in., all found in Ireland—A. H. Rhind, 1860; *Bell Collection*, Purchased 1867; and Sir C. Wyville Thomson, 1872.

360–363. Axes, viz.—(**360**) broken portion of the upper end of polished axe of flint, from Abbeville, France; (**361**) axe of greenstone, $2 \times 1\frac{1}{2}$ in., finely polished, from near Constantinople, Turkey—Dr J. Anderson, 1875; (**362**) axe of fibrolite, $1\frac{1}{4} \times \frac{7}{8}$ in., probably from France; (**363**) axe of jasper, which appears to have been used as a burnisher, probably found in Greece—*Ruthven Collection*, Presented 1884.

364. Axe of Calcareous Stone, $8\frac{3}{4} \times 3\frac{1}{2}$ in., flattish on one side, perforated through the centre of the flat face, found near Thetford, Norfolk, England—Purchased 1887.

365–368. Small Axes from Greece, viz.—(**365**) of porphyry, $1\frac{3}{8} \times 1\frac{1}{16} \times \frac{3}{8}$ in.; (**366**) of porphyry, $1\frac{1}{4} \times 1\frac{1}{8} \times \frac{1}{2}$ in.; (**367**) porphyry, $2\frac{3}{8} \times 1\frac{9}{16} \times \frac{3}{4}$ in., all from Athens; (**368**) of greenstone, $1\frac{15}{16} \times 1\frac{7}{16} \times \frac{9}{16}$ in., from Melos—Robert Carfrae, 1887.

369. Axe of Claystone, $4\frac{13}{16} \times 2\frac{13}{16}$ in., found in Isle of Man—Sir Herbert Eustace Maxwell, Bt., 1889.

370–384. Axes from Ireland, principally County Antrim, and mostly polished, viz.—(**370**) of greenstone, $1\frac{7}{8} \times \frac{9}{16}$ in.; (**371**) of greenstone, $1\frac{15}{16} \times 1\frac{11}{16}$ in.; (**372**) of greenstone, $2\frac{5}{8} \times 1\frac{3}{4}$ in.; (**373**) of claystone, $3\frac{1}{8} \times 1\frac{7}{16}$ in.; (**374**) of claystone, $4\frac{3}{8} \times 1\frac{7}{8}$ in.; (**375**) of claystone, $4\frac{3}{16} \times 2\frac{7}{16}$ in.; (**376**) of blue slatestone, $8\frac{15}{16} \times 3\frac{13}{16}$ in.; (**377**) of slatestone, $5\frac{3}{8} \times 2\frac{11}{16}$ in.; (**378**) adze-shaped, of greenstone, $5\frac{1}{16} \times 1\frac{15}{16}$ in.; (**379**) of greenstone, $5\frac{3}{8} \times 2\frac{5}{16}$ in.; (**380**) of black claystone, $5\frac{3}{4} \times 2\frac{7}{16}$ in.; (**381**) of greenstone, $6\frac{13}{16} \times 2\frac{3}{4}$ in.; (**382**) of greenstone, $7\frac{3}{8} \times 2\frac{3}{8}$ in.; (**383, 384**) chisel-shaped, of greenstone, $6\frac{3}{8} \times 1\frac{11}{16}$ in., and $6\frac{3}{16} \times 1\frac{1}{2}$ in.—Sir Herbert Eustace Maxwell, Bt., 1889.

385–399. Axes from France, viz.—(**385**) of flint, rudely chipped, $2\frac{3}{4} \times 1\frac{1}{2}$ in., (**386**) of flint, $4 \times 1\frac{9}{16}$ in., rudely chipped, (**387**) of flint, $7\frac{3}{4} \times 2\frac{3}{4}$ in., rudely chipped, (**388**) of flint, $5\frac{3}{8} \times 2\frac{9}{16}$ in., surface ground and polished, cutting edge slightly fractured, all from Sens; (**389**) of flint, $5\frac{9}{16} \times 2\frac{7}{16}$ in., rudely chipped, (**390**) of flint, $5\frac{9}{16} \times 2\frac{1}{4}$ in., rudely chipped, both from Seligny; (**391**) of flint, $3\frac{1}{4} \times 2$ in., finely polished, cutting edge slightly fractured, from Compiegne, Oise; (**392**) of flint, $4 \times 1\frac{9}{16}$ in., polished, cutting edge fractured, (**393**) of flint, $5\frac{9}{16} \times 2\frac{1}{2}$ in., cutting edge fractured, both from Bourges; (**394**) of cherty flint, $6\frac{9}{16} \times 2\frac{1}{2}$ in., finely polished, butt fractured, from Paris; (**395**) of fibrolite, $2\frac{3}{4} \times 1\frac{15}{16}$ in., finely polished, sides flat, from Clermont Ferrand; (**396**) of claystone, $7\frac{3}{8} \times 2\frac{5}{8}$ in., polished; (**397**) of greenstone, $3\frac{5}{8} \times 2\frac{1}{16}$ in., from Chartres; (**398**) of fine greenstone, $4\frac{1}{2} \times 2\frac{1}{16}$ in., finely polished, from near Breteuil, Oise; (**399**) of sandstone grit, $4\frac{5}{8} \times 2\frac{1}{8}$ in., found at Prestrié—Sir Herbert Eustace Maxwell, Bt., 1889.

AG 400, 401. Axes of Flint, $6\frac{3}{4} \times 2\frac{1}{4}$ in., and $8\frac{1}{8} \times 2\frac{3}{4}$ in., surfaces chipped, from Hanover, Prussia—Purchased 1888.

402. Axe of Blackish-grey Flint, $2\frac{3}{4} \times 1\frac{1}{2}$ in., with chipped surface, cutting edge polished, from Presson Hill, Parish of Wark, Northumberland—Purchased 1889.

PERFORATED STONE AXES, HAMMERS, &c.

In Table Case on First Floor at East End of South Side.

[The axes of this class, or axe-hammers, or hammer-axes, as they have been variously called, exhibit considerable variety of form. But they present one feature in common, the perforation for the handle, which has been made by drilling from both sides, probably with a piece of soft wood aided by sand and water. The more finely-finished examples are usually of small size, and often of ornamental varieties of stone. They seem to have been "weapons of parade or ceremony" rather than instruments of common use, and have been frequently found associated with cremated burials of the late Stone Age or early Bronze Age. The large and heavy wedge-shaped variety, on the other hand, does not appear to have been found with burials, and is probably of a still later period. Some of those which are only partially perforated show the process of drilling begun on both sides, and others the partially finished surface of the implement, while in some cases the wedge-shaped end of the weapon has been broken and re-shaped. Hammers having both ends nearly alike are scarcely so common as axe-hammers, and both varieties seem to have been chiefly regarded as weapons of parade.]

AH 1. Hammer of Whinstone, rudely formed, $11\frac{1}{4} \times 4\frac{3}{4} \times 2\frac{1}{2}$ in., found on the Farm of Westhills, Gretna, Dumfriesshire—Prof. Duns, 1879.

2. Hammer of Dark Grey Sandstone, $9 \times 4\frac{1}{2} \times 4$ in., unsymmetrical, found on side of Mye Loch, Stoneykirk, Wigtownshire—J. M'Caig, 1880.

3. Wedge-shaped Hammer of Sandstone, $10\frac{1}{2} \times 3\frac{1}{2} \times 3\frac{1}{2}$ in., from Silvermine, Torphichen, Linlithgowshire—Treasure Trove, 1865.

4. Wedge-shaped Hammer of Sandstone, $10 \times 4\frac{1}{2} \times 3\frac{1}{2}$ in., partially perforated, from Craigton, Linlithgowshire—Dr C. B. Handyside, 1828.

5. Axe of Sandstone, $7\frac{1}{2} \times 4 \times 3$ in., from Invernethy, Abernethy, Perthshire—James Marr, 1878.

6. Wedge-shaped Hammer of Sandstone, $7\frac{1}{2} \times 4 \times 3\frac{1}{2}$ in., from Galloway—Earl of Stair, 1781.

7. Axe of Chlorite Schist, $8\frac{1}{2} \times 4 \times 3$ in., from Fordoun—Purchased 1878.

8. Axe of Whinstone, triangular, $9\frac{3}{4} \times 4 \times 3$ in., from Duns, Berwickshire—A. Mitchell, M.D., 1879.

9. Wedge-shaped Hammer of Sandstone, $9\frac{1}{2} \times 4 \times 2\frac{1}{2}$ in., from Deebank, near Kirkcudbright—William Turnbull, 1833.

10. Wedge-shaped Hammer of Sandstone, $9\frac{1}{2} \times 4\frac{1}{2} \times 3$ in., from Carlinwark Loch, Dumfriesshire—Alex. Gordon, 1781.

11. Wedge-shaped Hammer of Sandstone, $7\frac{1}{2} \times 3 \times 2\frac{3}{4}$ in., unsymmetrical, from Lochmaben, Dumfriesshire—W. A. Parker, 1863.

12. Hammer of Whinstone, $8\frac{3}{4} \times 4\frac{1}{2} \times 3$ in., from Beith, Ayrshire—R. W. Cochran-Patrick, 1879.

13. Wedge-shaped Hammer of Sandstone, $10 \times 4\frac{1}{2} \times 3$ in., from Kirk of Dunscore, Dumfriesshire—James Grierson, 1827.

AH 14. Axe of Greenstone, $10\frac{1}{4} \times 5 \times 3$ in., fluted on the edges, from Preston, Ayrshire—The Earl of Stair, 1880.

15. Hammer of Sandstone, wedge-shaped, $10\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$ in., from North Milton, Glenluce—John Kelly, 1872.

16. Wedge-shaped Hammer or Maul of Sandstone, $9\frac{1}{2} \times 4 \times 3$ in., from Leith—Dr D. H. Robertson, 1862.

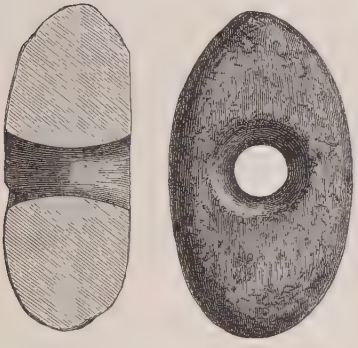
17. Axe of Grey Silurian Sandstone, $12 \times 5 \times 4$ in., from Culmore, Stoneykirk, Wigtown—Rev. Geo. Wilson, 1881.

18. Part of an Axe, 5×4 in., from Stewarton, Sorbie, Wigtownshire—Mr Dougal, 1881.

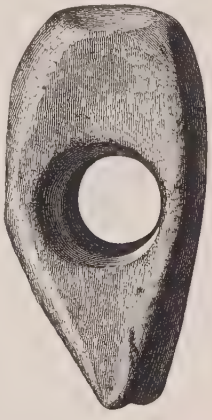
19. Broken Axe of Sandstone, $6\frac{1}{2} \times 4 \times 3\frac{1}{2}$ in., from Balmaclellan, Galloway—Rev. Geo. Murray, 1866.

20. Hammer of Greenstone, $6\frac{3}{4} \times 3\frac{3}{4} \times 2\frac{3}{4}$ in., with rounded ends and sides, found near Portpatrick, Wigtownshire—Rev. Andrew Urquhart, 1878.

21. Axe of Greenstone, $6\frac{1}{2} \times 3\frac{1}{2} \times 3\frac{1}{2}$ in., unsymmetrical, from High Clare, Old Luce, Wigtown—Rev. Geo. Wilson, 1880.



AH 20.



AH 21.

22. Axe of Greenstone, $8\frac{1}{4} \times 4 \times 3$ in., from High Clone, Mochrum, Wigtownshire—Rev. Geo. Wilson.

23. Axe of Greenstone, $8 \times 5 \times 2\frac{1}{4}$ in., locality unknown—Dr John Aitken, 1781.

24. Double-edged Axe-like Implement of Sandstone, $9 \times 4 \times 1\frac{1}{2}$ in., flat on one side, convex on the other, ends imperfect, from Ormiston, Abdie, Fife—Geo. Buist, 1866.

25. Naturally-shaped Pebble of Greenstone, $10 \times 4\frac{1}{2} \times 1\frac{1}{2}$ in., perforated, from Creed, Stornoway—P. Liddle, 1873.

26. Axe of Sandstone, $9\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ in., from Cunningham Farm, Torhouskie, Wigtown—Rev. David C. A. Agnew, 1878.

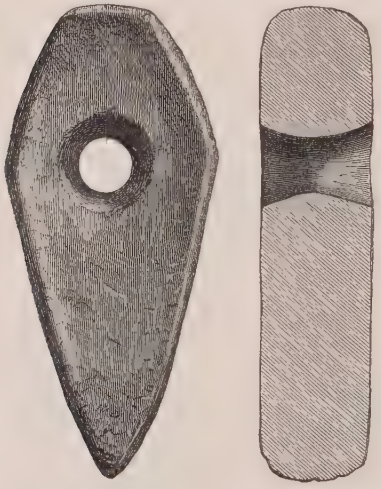
27. Wedge-shaped Hammer of Greenish Sandstone, $7\frac{1}{2} \times 4 \times 2$ in., from Kelton, Kirkcudbright—Rev. J. Milligan, 1868.

28. Axe-Hammer of Greenstone, $6\frac{1}{2} \times 3\frac{1}{4} \times 2\frac{3}{4}$ in., constricted in the middle, from Wigtownshire—R. Vans Agnew, 1882.

AH 29. Axe of Silurian Sandstone, ovate, with blunt edge, $3\frac{1}{2} \times 3\frac{1}{4} \times 1\frac{1}{4}$ in., from Kirkcowan, Wigtownshire—Rev. Alex. Scott.

30. Hammer of Mica Schist, $3 \times 2\frac{1}{4}$ in., from Arran—Duchess of Hamilton, 1864.

31. Hammer of Grey Granite, cylindrical, partially perforated, from Glenisla, Forfarshire—Rev. J. O. Haldane, 1880.



AH 26.

32. Half of a Hammer, polished, from West Law, Lomond Hills, Fife—Lieut.-Col. G. Miller, 1829.

33. Half of a Hammer, polished, $2 \times 1\frac{7}{8}$ in., from Lamaness, Sanday, Orkney.

AH 29.

34. Wedge-shaped Hammer of Porphyry, $2\frac{3}{4} \times 2\frac{1}{2}$ in., roughly shaped, from Gallowhill, Turriff—Peter Collier, 1870.

35. Unperforated Hammer from the Island of Coll, $4\frac{1}{2}$ in. long—Wm. M'Gillivray, 1878.

36. Axe of Sandstone, with quartz veins, $4\frac{1}{4} \times 3$ in., unfinished, imperforate, found with a stone implement beside a cist in a barrow at Whitehall, Stronsay, Orkney—Geo. Petrie, 1867.

37. Hammer of hard White Stone, 3×2 in., finely polished, with ornamentation similar to AI 1, found near Kenny's Cairn, Urquhart, Elginshire—Rev. Jas. Morrison, 1872.

38. Hammer of Gneiss, $3\frac{1}{4} \times 2\frac{1}{4}$ in., polished, from Aldbar, Forfarshire—Mr Gibb, 1860.

39. Hammer of Quartzose Sandstone, $4 \times 2\frac{1}{2}$ in., polished, from Longman, Macduff, Banffshire—Jas. Paterson, 1865.

40. Hammer of Sandstone, $3\frac{3}{4} \times 2\frac{3}{4}$ in., partially perforated, from Ashogall Hill, Turriff—Peter Collier, 1870.

41. Axe of Serpentine, $3\frac{15}{16} \times 1\frac{3}{8}$ in., with haft-hole at right angles to the cutting ends, polished, from a barrow in Shetland—Capt. F. W. L. Thomas, R.N., 1851.

42. Adze-shaped Axe, $3\frac{3}{4} \times 2\frac{1}{4}$ in., double-edged, from Orphir, Orkney—*Petrie Collection*, Purchased.

43. Axe of Decomposed Stone, $4\frac{1}{4} \times 2 \times 1\frac{1}{4}$ in., double-edged, from Scarpiegarth, Kergord, Shetland—D. D. Black, 1866.

AH 44. Wedge-shaped Hammer of Basalt, 6×2 in., polished, found in the Tay, at Mugdrum Island—David Bennet, 1870.

45. Axe of Serpentine, oval, wedge-shaped, $4\frac{3}{4} \times 2\frac{1}{4}$ in., from Portpatrick—Rev. A. Urquhart, 1878.

46. Axe-hammer of Granite, polished, $4\frac{1}{2} \times 1\frac{1}{2}$ in., wedge-shaped, locality unknown—Purchased at Dowell's Sale, 1874.

AH 35.

47. Cast of a Hammer, $4 \times 2\frac{1}{4} \times 1\frac{3}{4}$ in., with oval and wedge-shaped ends, and the sides projecting round the handle-hole, locality unknown—John Rae, 1880.

48. Hammer of Grey Granite, $3\frac{1}{4} \times 2\frac{1}{4}$ in., from Old Deer—Rev. James Peter, 1881.

49. Hammer, $4\frac{1}{4} \times 3\frac{1}{4} \times 2\frac{3}{4}$ in., oval and rounded, from Glenluce—Rev. George Wilson, 1881.

50. Of Greenstone, $8\frac{1}{4} \times 4 \times 2\frac{3}{4}$ in., from Aikbrae, Peeblesshire—*Sim Collection*, Mrs White, 1882.

51. Axe-hammer of Greenstone, $5\frac{1}{2} \times 3 \times 2\frac{1}{4}$ in., from Peeblesshire—Purchased 1882.

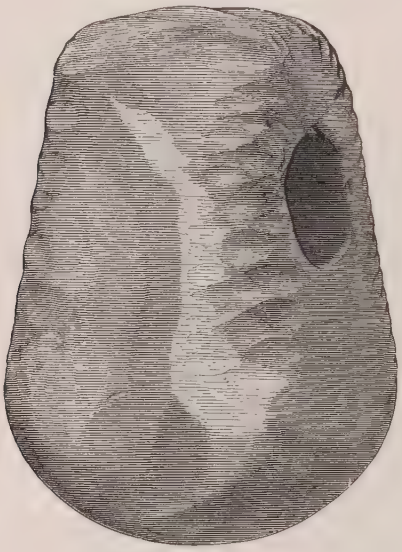
52. Axe-hammer of Granite, $6 \times 2\frac{1}{2}$ in., found in the Tay, near Newburgh—A. Laing, LL.D., 1883.

53. Half of a Hammer of Granite, $2\frac{1}{2} \times 1\frac{7}{8}$ in., from Camelon, Stirlingshire—James Gibson, 1812.

54. Hammer of Sandstone, $9\frac{1}{2} \times 4\frac{3}{4}$ in., imperfect at one end, from Duplin, Balgown—Dr Gemmill, 1883.

55. Hammer of Greenstone, $9\frac{1}{4} \times 4$ in., imperfect at the butt, from Roslin—Purchased 1883.

AH 56. Axe-hammer of Greenstone, $5\frac{1}{4} \times 2\frac{3}{8}$ in., from Harley Muir, near Carlops—Purchased 1884.



AH 37.

57. Axe-hammer of Granite, $6 \times 2\frac{1}{2}$ in., from river Tay at Ballinbriech, near Newburgh—A. Laing, LL.D., 1883.

58. Cast of a Stone Axe-hammer, $6 \times 3\frac{7}{8}$ in., from Rhynie, Aberdeenshire — John Rae, 1884.

59. Wedge-shaped Hammer of Whinstone, $9\frac{1}{4} \times 4 \times 3$ in., imperfect, from West Calder —A. Lumsden, 1885.

60. Hammer-head of Porphyry, $3\frac{3}{4} \times 2\frac{9}{16} \times 1\frac{5}{8}$ in., polished, from Elginshire—Purchased 1885.

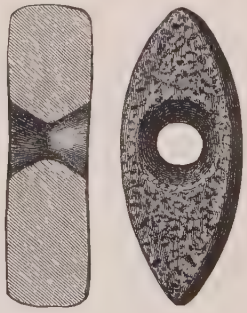
61. Hammer-head of Greenstone, $3\frac{1}{2} \times 2\frac{1}{2}$ in., plummet-shaped, perforated from each face, from Grange of Lindores, Fifeshire—Purchased 1885.

62. Axe-hammer of weathered Granitic Stone, $4\frac{1}{8} \times 2\frac{1}{16}$ in., cutting edge blunt, found near Stirling — Purchased 1885.

63. Hammer-head of Whinstone, $9\frac{1}{4} \times 3\frac{1}{4} \times 2\frac{1}{2}$ in., partially perforated from each side, from Blindburn, Dalgain, Sorn, Ayrshire—James Gall, 1886.

64. Hammer-head of Greenstone, $8 \times 4\frac{1}{4}$ in., butt imperfect, from Monybuie, Balmaclellan, Kirkcudbrightshire—Dr Walter G. Dickson, 1886.

AH 44.



AH 45.

65. Axe-hammer of Felstone, $5\frac{1}{8} \times 1\frac{3}{4}$ in., haft-hole at right angles to the cutting edges, which are blunt, from Inveresk, Midlothian—Purchased 1886.

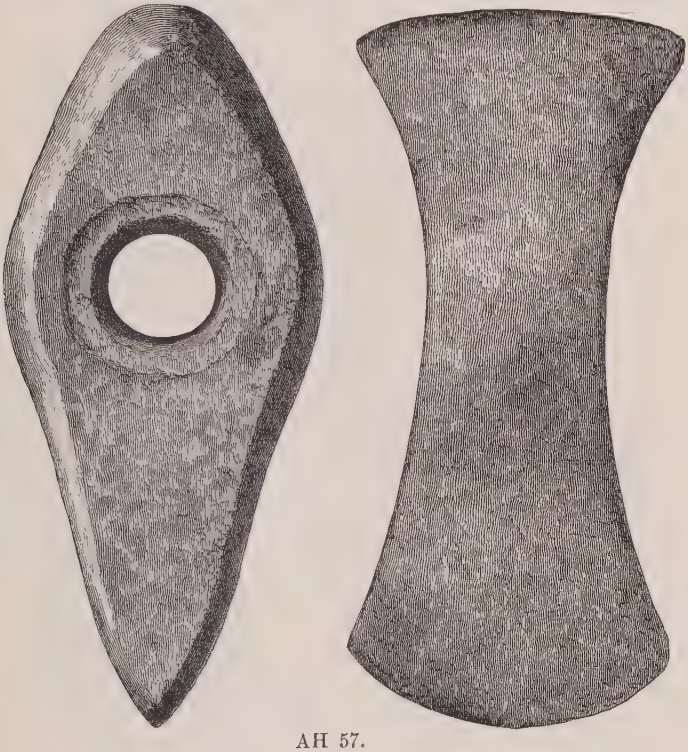
66. Perforated Axe-hammer of Limestone, $4\frac{5}{8} \times 1\frac{9}{16}$ in., much worn, cutting edge imperfect, locality unknown —Gibson-Craig Sale, Purchased 1887.

67. Hammer-head of Quartzite, $2\frac{3}{4} \times 1\frac{7}{8}$ in., oval-shaped, perforated from each side, from Illeray, North Uist—Purchased 1887.

68. Axe or Adze of Sandstone, $4\frac{1}{4} \times 2\frac{1}{2}$ in., perforated through the flat face at right angles to the cutting edge, from Berwickshire—Purchased 1887.

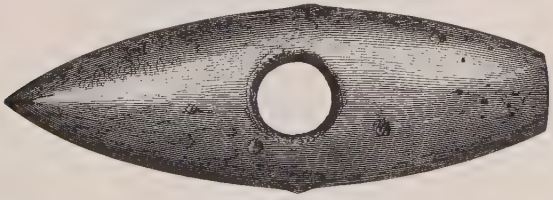
69–71. Casts from Originals in Collection of the late John Rae, viz.—(**69**)

AH $10\frac{1}{2} \times 3\frac{1}{2}$ in., imperfectly perforated, from Turriff; (**70**) $3 \times 2\frac{1}{2}$ in., partially perforated on one side, from Fyvie; (**71**) $3\frac{3}{4} \times 2\frac{3}{4}$ in., oblong, flattish-shaped, perforated, from Fyvie—Dr Arthur Mitchell, C.B., 1887.



AH 57.

72. Hammer-head of Grit, $11 \times 4\frac{1}{4} \times 3\frac{3}{8}$ in., partially perforated, unfinished in form, from Balgour, Kirkcolm, Wigtownshire—John M'Meekan, 1889.



AH 74.

73. Axe-hammer of Diorite, $13\frac{1}{2} \times 4\frac{13}{16}$ in., with haft-hole partially drilled from each side, and having a peculiarly formed butt, from Mearns, Renfrewshire—Purchased 1888.

74. Axe-hammer of Granite, $5\frac{3}{4} \times 1\frac{13}{16}$ in., perforated, polished, and having a

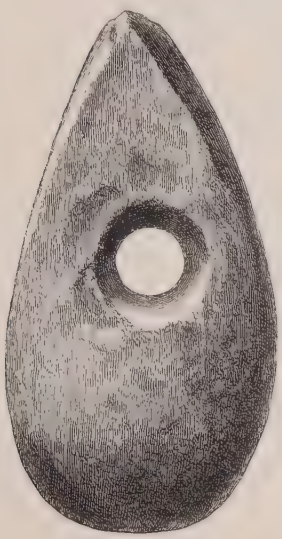
AH small projection on each side opposite the haft-hole, found near Inveraray, Argyllshire—Purchased 1888.

75. Cutting End of a perforated Axe-hammer of Granitic Stone, from Millhill, Auchterarder, Perthshire—*Linn Collection*, Purchased 1888.

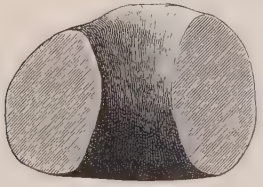
AH 77.

76–88. Hammer-heads, perforated, from Wigtownshire, viz.—(**76**) of compact sandstone, $10\frac{1}{2} \times 4\frac{3}{4}$ in., from Barnkirk; (**77**) of sandstone, $10\frac{1}{2} \times 4\frac{7}{8}$ in., from Barr, Penninghame; (**78**) of sandstone grit, $10\frac{5}{8} \times 5$ in., from Barness, Wigtown; (**79**) of greenstone, $10 \times 3\frac{1}{2}$ in., from Bishop's Burn, Penninghame; (**80**) of whinstone, $7\frac{5}{8} \times 3\frac{7}{8}$ in., from Balcraig; (**81**) of diorite, $8\frac{1}{16} \times 4\frac{3}{8}$ in., imperfect at the point, from Wigtown; (**82**) of whinstone, $9\frac{1}{8} \times 3\frac{7}{8}$ in., imperfect on one side, from Airiehassan; (**83**) of

AH granitic stone, $7\frac{1}{4} \times 3\frac{5}{16}$ in., much weathered, from Wigtown; (**84**) butt end of large hammer-head of whinstone, from Carleton; (**85**) butt end of hammer-head of granitic stone, subsequently used as a hammer-stone, from Orchardton; (**86**) of sandstone, rude, unfinished, and imperforate, $11\frac{1}{8} \times 4$ in., from Physgil; (**87**) small, oval, of gritty sandstone, $2\frac{1}{16} \times 2\frac{5}{16}$ in., haft-hole polished, slightly imperfect on one side; (**88**) portion of a large hammer-head of granite—Sir Herbert Eustace Maxwell, 1889.



AH 93.



AH 80.

89. Hammer-head of Granitic Stone, $4\frac{1}{16} \times 2$ in., polished, with haft-hole bored through the flat face, abraded at each end, from Bloody Quoy, Deerness, Orkney—Purchased 1888.

90. Hammer-head of Greenstone, $3\frac{1}{2} \times 2\frac{3}{16}$ in., perforated through the flat face, imperfect on one side, from Abernethy, Perthshire—Purchased 1889.

91. Hammer-head of Whinstone, $13\frac{1}{2} \times 5\frac{5}{8}$ in., rudely formed, perforated, from Eskhill, Roslin, Edinburghshire—Purchased 1889.

92. Half of a perforated Adze of Veined Slate, broken through the haft-hole, the cutting end blunted, from Fifeshire—Purchased 1889.

93. Axe-hammer of weathered Porphyritic Stone, $4 \times 1\frac{7}{8}$ in., with haft-hole through the flat face, from Cobinshaw Loch, West Calder—William Prentice, 1890.

AH 94. Axe-hammer of Felstone, $4\frac{1}{16} \times 1\frac{1}{16}$ in., polished, haft-hole at right angles to the edges, from Fillaws, Monikie, Forfarshire—*Sturrock Collection*, Purchased 1889.

95, 96. Hammer-heads from Aberdeenshire, viz.—(**95**) of quartzose sandstone, $3\frac{1}{2} \times 2\frac{3}{8}$ in., with haft-hole through the flat face, from Auchterless; (**96**) of whinstone, $3\frac{1}{4}$ in. long, with part of one side broken away, from Boddam—*Sturrock Collection*, Purchased 1889.

97. Hammer of Silurian Sandstone, $8\frac{1}{8} \times 3\frac{3}{4}$ in., perforated, with rounded butt, surface roughly weather-worn, from Glenluce, Wigtownshire—Deposited by the Earl of Stair, 1885.

98. Hammer of Whinstone, 9×5 in., perforated, with rounded butt, from Tannadice, Forfarshire—Purchased 1891.

99. Hammer of Silurian Sandstone, $9\frac{1}{4} \times 4$ in., wedge-shaped, from Old Luce, Wigtownshire—Rev. George Wilson.

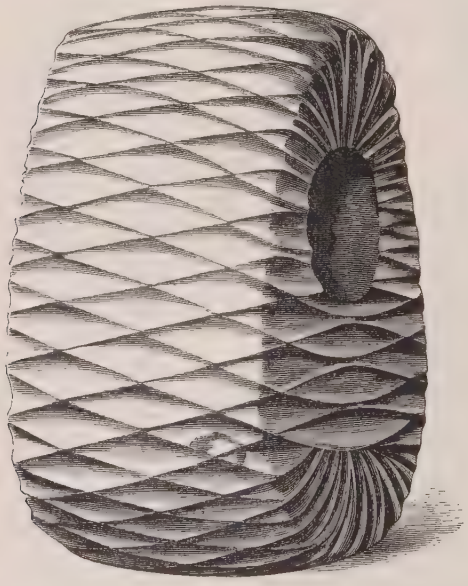
100. Hammer of Micaceous Stone, perforated, $3\frac{3}{8} \times 2\frac{5}{8} \times 1\frac{3}{4}$ in., from Aberdeenshire—Purchased 1891.

PERFORATED STONE HAMMERS, &c.

[From other European Countries for comparison.]

In Wall Case on North Side of Second Floor.

AI 1-10. Hammers, viz.—(**1**) hammer of hornstone, $3 \times 2 \times 2$ in., finely polished, covered with lozenge-shaped patterns, from Maysmore, Corwen, Wales—Rev. E. L. Barnwell, 1865; (**2, 3**) hammers of sandstone, viz.—(**2**) $8\frac{1}{4} \times 4\frac{1}{2} \times 3\frac{1}{4}$ in., from Ireland; (**3**) $3\frac{3}{4} \times 2 \times 1\frac{1}{4}$ in.; (**4–6**) hammers from Ireland, viz.—(**4**) of granite, $3\frac{3}{16} \times 1\frac{15}{16} \times 1\frac{3}{4}$ in., polished; (**5**) of hornblendic gneiss, $4\frac{1}{2} \times 2\frac{7}{16} \times 2\frac{3}{16}$ in., oval-shaped, polished; (**6**) of micaceous schist, $4\frac{3}{16} \times 2\frac{13}{16} \times 1\frac{15}{16}$ in., oval-shaped, polished—*Bell Collection;* (**7**) axe-hammer of greenstone, $5 \times 3\frac{1}{4}$ in., with blunt-pointed butt, projecting knob in centre of convexity on either side, from Ireland — Prof. Sir C. Wyville Thomson, 1872; (**8–9**) hammer-heads of greenstone, from Ireland, viz.—(**8**) $3\frac{9}{16} \times 2\frac{5}{16}$ in., partially perforated, from Antrim; (**9**) $2\frac{5}{16} \times 1\frac{5}{8}$ in., perforated—Sir H. E. Maxwell, 1889; (**10**) large circular hammer of vesicular lava, $8\frac{1}{2}$ in. diameter, with wooden handle, from Iceland, where it is in common use—Jon A. Hjaltalin, 1873.



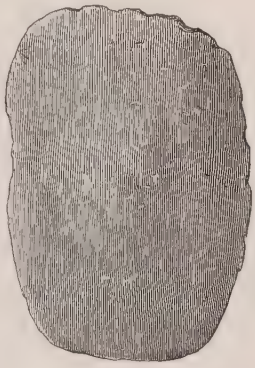
AI 1.

OVAL KNIFE-LIKE IMPLEMENTS.

SHETLAND.

In Table Case on North Side of First Floor.

AJ 1-22. Viz.—(**1, 2**) of porphyry, $9\frac{1}{4} \times 5\frac{1}{4}$ and $9\frac{1}{2} \times 4\frac{3}{4}$ in.—John S. Gibb, 1862; (**3**) of porphyry, $6\frac{3}{4} \times 5$ in., from Hillswick—A. H. Rhind, 1860; (**4**) of porphyry, $5\frac{3}{4} \times 4$ in., from Busta—Arthur Mitchell, M.D., 1877; (**5**) of porphyry, $5\frac{3}{4} \times 4\frac{1}{4}$ in., imperfect—A. H. Rhind, 1860; (**6**) of porphyry, $4\frac{1}{2} \times 3$ in., from Fyal Bank, Unst—Purchased 1871; (**7**) of serpentine, $5\frac{3}{4} \times 4$ in., imperfect—Arthur Mitchell, M.D., 1877; (**8**) of porphyry, $4\frac{1}{2} \times 4$ in.—Mrs Hope; (**9**) of hornblendic rock, $7\frac{1}{4} \times 3\frac{3}{4}$ in., polished, thinned to an edge from the back, from Houland, Walls—Arthur Mitchell, M.D., 1867; (**10-12**) of porphyry, viz.—(**10**) $6\frac{1}{4} \times 4\frac{1}{2}$ in.; (**11**) $5\frac{1}{2} \times 4\frac{1}{4}$ in.; (**12**) $5\frac{1}{4} \times 3\frac{3}{4}$ in.—*Lerwick Collection*, Purchased 1882; (**13-16**), viz.—(**13**) of porphyry, $6\frac{1}{4} \times 4\frac{1}{2}$ in., (**14**) $5\frac{1}{4} \times 4\frac{1}{2}$ in., (**15**) $6 \times 3\frac{5}{8}$ in., (**16**) $4\frac{3}{8} \times 2\frac{1}{4}$ in., all from a Moss at Uyea—Purchased 1885; (**17-19**) of porphyry, viz.—(**17**) $4\frac{5}{8} \times 2\frac{3}{4}$ in.; (**18**) $5\frac{3}{8} \times 3\frac{5}{8}$ in.; (**19**) $5\frac{1}{2} \times 4$ in., from Northmavine—Purchased 1887; (**20**) of porphyry, $9\frac{1}{4} \times 5$ in.—Deposited by Sir Alexander Christison, Bt., 1889; (**21-22**) of porphyry, viz.—(**21**) $6\frac{5}{8} \times 4\frac{3}{8}$ in.; (**22**) $6\frac{5}{8} \times 4\frac{3}{16}$ in.—Deposited by the Representatives of the late Gilbert Bain, 1887.



AJ 4

POUNDERS OR HAMMER-STONES, AND ANVIL STONES.

Window Cases on South Side of First Floor.

[The pounders or hammer-stones in this section are chiefly oblong or rounded water-worn pebbles or boulders of such a size as may be conveniently grasped in the hand, and having their ends more or less abraded by use in pounding or hammering. They seem to be of all ages. A few have been found with interments, but they occur in great numbers on the sites of "Flint Factories," Kitchen-middens or Shell-heaps, Crannogs, and Brochs. The anvil-stones are mostly boulders of larger size, with more or less flattened upper surfaces, frequently much indented by use. They have been found most abundantly in association with quantities of flint chips and flakes on the site of an extensive area of flint working at Skelmuir, in the parish of Slains, Aberdeenshire.]

AK 1. Pounder or Hammer-stone, found with the axes AF 40, 41, at Daviot—F. Walker, 1865.

2. Hammer-stone found on the cover of a stone cist in a cairn on Warth Hill, Duncansbay, Caithness—J. Anderson, 1869.

3-14. Hammer-stones, from Shetland, viz.—(**3**) oblong, $4\frac{1}{2}$ in. long, from a barrow at Barteskoe, Mid Yell; (**4**) oblong, of steatite, from Colvidale, Unst—James T. Irvine, 1863; (**5, 6**) oblong; (**7**) nearly circular, $3\frac{1}{2}$ in. diameter—Mrs Hope, 1859; (**8**) of white quartzite, 2 in. diameter—B.

AK N. Peach, 1879; (**9, 10**) of quartzite, from Unst—E. Burness, 1879; (**11, 12**) oblong, of sandstone, from Walls—Rev. A. Prentice, 1875; (**13, 14**) oblong, of sandstone, from West Burrafirth—Mr Mackenzie.

15–19. Hammer-stones from Orkney, viz.—(**15–17**) waterworn pebbles, oblong; (**18**) oblong, marked along the edge; (**19**) pear-shaped, imperfect at one end, from Wideford—G. Petrie, 1877.

20, 21. Anvil and Hammer-stone, being water-worn pebbles of quartzite, with indented hollows in each side, from Skelmuir, Aberdeenshire—John Rae, 1886.

AK 20, 21.

22. Cast of a large Anvil-stone of Quartzite with picked hollows on the sides and edges, the original found at Skelmuir, Aberdeenshire—Dr Arthur Mitchell, C.B., 1887.

23. Pounder, an Oval Pebble of Quartzite, $4 \times 3\frac{1}{4}$ in., from Loch Fada, Colonsay—W. Stevenson, 1881.

24–113. Hammer-stones, from Wigtownshire, viz.—(**24–42**) ten water-worn stones and nine quartz pebbles, from Glenluce; (**43–63**) fifteen water-worn stones and six quartz pebbles from Six-Mile Stone, Clachsiant, Glenluce; (**64–82**) fourteen water-worn stones and five quartz pebbles, from Torrs; (**83–92**) seven water-worn stones and three quartz pebbles, from Freugh, Stoneykirk; (**93, 94**) water-worn pebbles, from High Myre, Stoneykirk; (**95, 96**) water-worn pebbles, from Two-Mark; (**97**) quartz pebble, from Culmore; (**98**) water-worn pebble, from Barhapple Crannog; (**99**) pebble, from East Goldenoch; (**100**) quartz pebble, from Machermore Loch; (**101, 102**) flint nodules, from Glenluce; (**103–113**) water-worn pebbles, from Glenluce—Rev. George Wilson, 1881.

114–117. Four water-worn Pebbles, from the Culbin Sands—*Ibid.*, 1881.

118. Hammer-stone of Sandstone, circular, $3 \times 2\frac{1}{4}$ in., worn on edge by use, from Knockolochy, Aberdeenshire—Purchased 1881.

119. Hammer-stone of Sandstone, $8\frac{3}{4} \times 3\frac{1}{2}$ in., from Clickamin, Shetland—*Lerwick Collection*, Purchased 1882.

120. Hammer-stone of Greenstone, $4\frac{3}{4} \times 2\frac{1}{2}$ in., from Sutherlandshire—Purchased 1883.

121–123. Hammer-stones worn at both ends, viz.—(**121**) circular, 4 in. diameter, from Kennaby; (**122**) oblong, $5 \times 3\frac{1}{2}$ in.; (**123**) elongated, $6 \times 2\frac{1}{2}$ in., from Gillie, Fair Isle—J. A. Smith, M.D., 1882.

AK 124–129. Anvil Stones, water-worn pebbles and boulders, their faces indented by use, from Skelmuir, Aberdeenshire—John Sturrock, 1881.

130. Cast of Stone Pounder, abraded at both ends, found at Auchterless, Aberdeenshire—John Rae, 1884.

131. Pounder, abraded at both ends, from Drainie, Elginshire—Purchased 1884.

132. Hammer-stone, abraded at both ends, from a tumulus in Orkney—Col. Balfour, 1884.

133. Hammer-stone with slight groove round the middle, from Kirklauchline, Stoneykirk, Wigtownshire—Ivie M'Ilwraith, 1885.

134. Water-worn Pebble of Quartz, probably a pounder, found near St Andrews, Fife—Spencer G. Percival, 1884.

135. Hammer-stone of White Quartz, from the Cabrach, Banffshire—Rev. Dr A. Gordon, 1884.

136–144. Hammer-stones of Sandstone, viz.—(**136**) from Stronsay; (**137**) abraded at both ends, from Deerness; (**138–143**) abraded at both ends; (**144**) rounded pebble of silicious sandstone ground on two sides, from South Ronaldsay—Purchased 1887.

145. Cast of Hammer-stone, grooved round the centre, from Birse, Aberdeenshire—Dr Arthur Mitchell, 1887.

146. Hammer of Granitic Stone, with deep groove round the centre, from Aberdeenshire—Purchased 1888.

147. Hammer of Quartzite, $2\frac{7}{8}$ in. diameter, abraded by use, from Kirkbryde Farm, Kirkcolm, Wigtownshire—John M'Meekan, 1888.

148–149. Anvil Stones, from Mid Torrs, Glenluce, one with six, the other with seven, indented hollows—Purchased 1888.

150. Anvil Stone of Granite, with indented hollows all over, from Aberdeenshire—Purchased 1888.

151. Hammer-stone of Sandstone, abraded on ends by use, from Broch of Brounaben, Wick—*Linn Collection*, Purchased 1888.

152–166. Hammer-stones from Wigtownshire, viz.—(**152–154**) of quartzite, from Balcraig; (**155**) of sandstone, abraded at one end by use, from Ardwell; (**156–157**) of greenstone, abraded at ends, from Drumfad; (**158**) of granite, grooved round the middle, from Barhullion; (**159**) of greenstone, with groove round the middle, from Philgown; (**160**) of greenstone, from Dowies, Glasserton; (**161**) of sandstone, abraded at both ends, from Balcraig; (**162**) of greenstone, with deep groove round the middle, from Whithorn; (**163**) of greenstone, from Drumterlie, Penninghame; (**164–166**) without localities—Sir H. E. Maxwell, 1889.

167. Hammer-stone of Quartzite, from Slains—G. F. Black, 1888.

168. Hammer-stone of Quartzite, slightly abraded by use, from Aberdeenshire—Purchased 1889.

169–173. Anvil Stones of Quartzite, from Skelmuir, Aberdeenshire, viz.—(**169**) with nine hollows on one face and six on the other; (**170**) with four hollows on each face; (**171**) with two hollows on one face and one on the other, and grooved; (**172**) with three hollows on one face and two on the other, and worn by use as a hammer-stone; (**173**) with deep circular smoothed hollow on one face—*Sturrock Collection*, Purchased.

174, 175. Hammer-stones, from Aberdeenshire, viz.—(**174**) of micaceous schist, oblong, with picked surface, from Cloister Seat, Udny—C. S. Temple; (**175**) cubical, quartzite water-worn pebble, from Old Deer—Rev. James Peter, 1881.

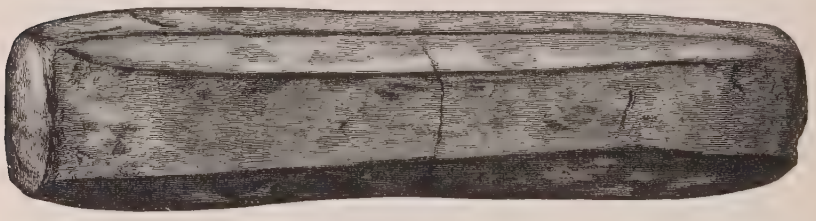
AK **176.** Hammer-stone, a water-worn quartzite pebble, 5 × 3 in., from Auchterhouse—Rev. W. M. Inglis, 1880.

177–190. Five small Anvil Stones and nine Hammer-stones, from Glenluce—Purchased.

WHETSTONES, POLISHERS, &c.

In Desk-Cases, First Floor, South Side.

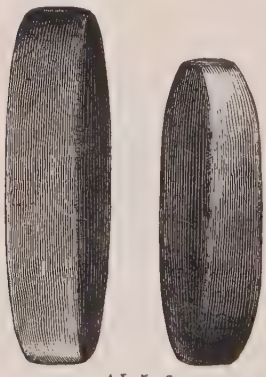
[This class comprehends a number of implements of various forms, but all related to the operations of grinding, whetting, or polishing other implements, whether of stone or metal. Some of the larger examples may have been used for grinding and polishing stone axes. The small regularly-shaped whetstones



AL 1.

of quartzite, and the small elongated whetstones, with or without a perforation at one end, belong to the Bronze Age, or in some cases possibly even to later periods. Some of the small dark-coloured whetstone-shaped implements may have been touch-stones for testing the quality of gold by the comparison of its streak.]

AL



AL 5, 6.

1. Polygonal Grinding or Sharpening Stone of Quartzite, $13\frac{1}{2} \times 3 \times 2\frac{3}{4}$ in., from Lamberton Moor, Berwickshire—Major Campbell Renton, 1881.

2. Sharpening Stone of Silicious Sandstone, bearing numerous grooves, from Largo, Fifeshire—Charles Howie, 1873.

3–9. Whetstones or Slickstones of Quartzite, viz.—(**3**) $1\frac{15}{16} \times \frac{3}{4} \times \frac{1}{2}$ in., from Killin, Perthshire—Purchased 1882; (**4**) $2\frac{1}{4} \times \frac{3}{4} \times \frac{3}{4}$ in., from Carniemore, Rickarton, Stonehaven, Kincardineshire—*Sturrock Collection*, purchased 1889; (**5**) $2\frac{1}{16} \times \frac{5}{8} \times \frac{5}{16}$ in., from Bankhead Moss, Beith, Ayrshire—William Cochran-Patrick, 1856; (**6**) $2\frac{3}{8} \times \frac{3}{4} \times \frac{11}{16}$ in., from Knockneen, Wigtownshire—Earl of Stair, 1887; (**7**) $2\frac{1}{16} \times 1 \times \frac{11}{16}$ in., from Capenoch, Wigtownshire, (**8**) $2\frac{9}{16} \times \frac{7}{8} \times \frac{3}{4}$ in., from Eldrig, Mochrum, Wigtownshire, both by Sir Herbert Eustace Maxwell, 1889; (**9**) $2\frac{3}{8} \times 1 \times \frac{3}{4}$ in., from Inverliver, Loch Etive—Purchased 1892.

10–23. Whetstones, perforated at one end, viz.—(**10**) of quartzite sandstone, $2\frac{3}{8} \times \frac{11}{16} \times \frac{9}{16}$ in., from Housgord, Wiesdale, Shetland—David Dakers

AL Black, 1866; (**11**) of sandstone, $2\frac{1}{2} \times \frac{7}{8} \times \frac{1}{2}$ in., from the Avon, Linlithgowshire—Presented 1873; (**12**) of quartzite, $2\frac{5}{16} \times 1\frac{1}{16} \times \frac{9}{16}$ in., imperfect at one end, (**13**) of quartzite sandstone, $2\frac{5}{8} \times \frac{15}{16} \times \frac{1}{2}$ in., (**14**) of quartzite sandstone, $3\frac{3}{16} \times 1\frac{3}{16} \times \frac{9}{16}$ in., all three from Wigtownshire, (**15**) of schistose stone, $5\frac{5}{16} \times \frac{5}{8} \times \frac{9}{16}$ in., tapering at each end, from Orchardton, Wigtownshire—all four by Sir Herbert Eustace Maxwell, 1889; (**16**) of mica-schist, $3\frac{1}{8} \times \frac{3}{4} \times \frac{1}{2}$ in., from a cist at Glenshee, Perthshire—Rev. John Fergusson, M.A., 1880; (**17**) of schistose slate, $3\frac{7}{16} \times \frac{5}{16} \times \frac{1}{4}$ in., found near the Cathedral of Lismore, Argyllshire; (**18**) of schistose slate, $3\frac{3}{4} \times \frac{9}{16} \times \frac{1}{4}$ in., from Birkle Hill, Keiss, Caithness—Dr Arthur Mitchell; (**19**) of schistose slate, $1\frac{15}{16} \times \frac{7}{16} \times \frac{1}{4}$ in., with small bronze ring for suspension, from North Uist—Lady Dick Lauder, 1862; (**20**) of greenish porphyritic stone, $2\frac{1}{16} \times \frac{7}{16} \times \frac{7}{16}$ in., from near the ruins of St Salvador's Chapel, Shapinsay, Orkney—Col. David Balfour, 1862; (**21**) of reddish sandstone, $2\frac{9}{16} \times \frac{1}{2} \times \frac{7}{16}$ in., from Glenluce Sands, Wigtownshire—Purchased; (**22**) of schistose slate, $2\frac{1}{16} \times \frac{1}{2} \times \frac{5}{16}$ in., imperfect at one corner, from Rickarton, Stonehaven, Aberdeenshire—*Sturrock Collection*, Purchased 1889; (**23**) of sandstone, $4\frac{3}{8}$ in. long, from Lammermuir, Berwickshire—Purchased 1883.

AL 28.

AL 17.

24–31. Small Whetstones or Slickstones of Quartzite, viz.—(**24**) $3\frac{1}{4} \times \frac{7}{16} \times \frac{3}{8}$ in., tapering at each end, found near Killin, Perthshire—Purchased 1888; (**25**) $2\frac{1}{4} \times \frac{7}{16} \times \frac{7}{16}$ in., from Glentarkin, Perthshire—Robert Robertson, 1886; (**26**) $2\frac{7}{16} \times \frac{1}{2} \times \frac{1}{2}$ in., from Cairnsmore, Kells, Kirkcudbright—Purchased 1884; (**27**) imperfect at each end, $2\frac{3}{16} \times \frac{7}{16} \times \frac{7}{16}$ in., from Aberdeenshire—*Sturrock Collection*, Purchased 1889; (**28**) imperfect at one end, $2\frac{1}{16}$ in. long, from Coupar-Angus—Purchased 1887.

32. Whetstone of Sandstone, $5\frac{5}{8} \times 2\frac{1}{2}$ in., perforated near one end, from Orkney—Purchased 1888.

33. Polisher of Hematite, probably found in Wigtownshire—Sir Herbert Eustace Maxwell, 1889.

34. Polisher of Sandstone, $2\frac{13}{16} \times 2\frac{1}{2}$ in., from Glenluce, Wigtownshire—Purchased 1888.

35. Polisher of Slatestone, worn by use, from Whithorn Churchyard, Wigtownshire—Purchased 1884.

36. Polisher of Reddish Slate-like Stone, 4 in. long, from Achinbady, Alvah, Banffshire—Alexander Laing, LL.D., 1878.

37. Small Pebble of Quartzite, oval-shaped, pointed at each end, one face polished, from Barnkirk, Wigtownshire—Purchased 1888.

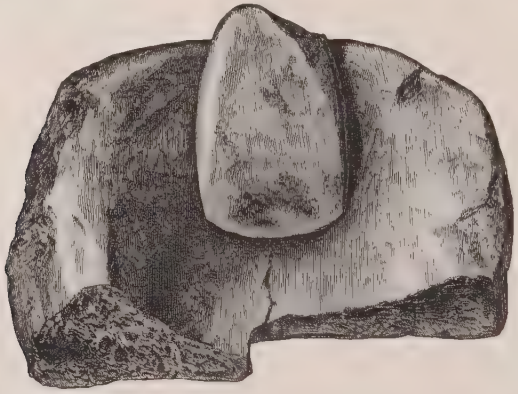
38, 39. Sharpening Stone of Sandstone, imperfect, $4\frac{1}{2} \times 5$ in., hollowed on each face, and axe of felstone, $2\frac{1}{4} \times 1\frac{9}{16}$ in., polished, both found together near the sandhills, Stoneykirk, Wigtownshire—Rev. George Wilson, 1881.

40. Sharpening Stone of Micaceous Schist, from Salisbury Crags, Edinburgh—John Blair, 1871.

41. Whetstone of Quartzite of irregular form, $3\frac{3}{4}$ in. length, from Plean, Stirlingshire.

AL 42. Hone of Indurated Claystone, $4\frac{3}{4} \times 1\frac{1}{4} \times 1$ in., locality unknown—Sir James Young Simpson, 1870.

43. Polisher of Hematite, quadrangular in form, from Kirkcolm, Wigtownshire—Charles Wallace, 1878.



AL 38, 39.

44. Whetstone of Felstone, $6\frac{7}{8}$ in. long, imperfect at each end, from Haddington—James Robb, 1882.

45. Conically shaped piece of Bituminous Shale, $2\frac{1}{4} \times 1$ in., from Bankhead Moss, Beith, Ayrshire—W. Cochran-Patrick, 1856.

46–50. Sharpening Stones, from Orkney, viz.—(**46**) of micaceous sandstone, $3\frac{7}{16}$ in. long, imperfect at one end, square in cross-section; (**47**) of micaceous claystone, $2\frac{5}{8} \times 1\frac{3}{8}$ in.; (**48**) of micaceous sandstone, $3\frac{5}{16} \times \frac{7}{8}$ in., with rounded angles; (**49**) of sandstone, $3\frac{7}{8} \times 1\frac{1}{8}$ in.; (**50**) of steatite, lozenge-shaped, $6\frac{3}{4} \times 4$ in., grooved on the edges by use—George Petrie, 1877.

51. Polisher of Green Jasper, found in a stone urn at Hunday, Orkney—George Petrie, 1877.

52–64. Whetstones of Sandstone and Claystone, from Wigtownshire, viz.—(**52**) from Park Hay, Glenluce; (**53**) perforated at one end, and (**54**), both from Low Torrs, Glenluce; (**55**) imperfect on one face, from Park Hay, Glenluce; (**56, 57**) water-worn pebbles smoothed by use, from Lodenagapple; (**58**) from Glenluce; (**59**) from Knockdorn, Glenluce; (**60–62**) from Clachsiant, Glenluce; (**63**) from Mid Torrs; (**64**) from Glenluce—Rev. George Wilson, 1881, 1890.

65–67. Whetstones, viz.—(**65**) of micaceous stone, $2\frac{7}{8}$ in. long, from Strathnaver, Sutherland; (**66**) of micaceous stone, $4\frac{1}{8}$ in. long, from Aberdeenshire; (**67**) an oblong water-worn pebble, $4\frac{1}{2}$ in. long, from Rait, by Errol, Perthshire—*Sturrock Collection*, 1889.

68–79. Smoothing and Polishing Stones, from Wigtownshire, viz.—(**68**) fragment of a slab, from Glenluce; (**69**) fragment of a small slab from Six Mile Stone, Clachsiant; (**70**) of red sandstone, showing marks and grooves, from East Freugh, Stoneykirk; (**71–73**) from Torrs, Glenluce; (**74**) from Mid Torrs, Glenluce; (**75–78**) from Six Mile Stone, Clachsiant; (**79**) from a hut circle, near Dunman, Kirkmaiden—Rev. George Wilson, 1881.

AL 80. Whetstone of Silicious ~~Sandstone~~, 9 × 6 in., grooved by use on its flat surfaces, from Unst, Shetland—Thomas Edmonston, 1873.

81, 82. Polisher of Hematite, viz.—(**81**) 2½ × 2 in., found in a tumulus with bones of animal sat Machirhanish, Cantyre—Alexander Seton, 1826; (**82**) 1¾ × 1 in., from Island of Harris.

83–86. Whetstones of Quartzite, each with groove on one face, viz.—(**83**) from Wigtownshire—Sir Herbert Eustace Maxwell, 1889; (**84**) from East Freugh, Stoneykirk, Wigtownshire—Rev. George Wilson, 1881; (**85**) finely formed, sides flat, from a circular building on the island of St Kilda—T. S. Muir, 1859; (**86**) with deep groove on each face, from the Church of Dunino, Fifeshire—Rev. James Ewen, 1888.

STONE IMPLEMENTS WITH INDENTED HOLLOWS.

In Window Cases, South Side of First Floor.

[The implements in this class are chiefly water-worn pebbles of an ovoid form, but flattened on two sides, the indented hollows being usually formed in the centre of the flattened sides. These hollows are generally circular in plan and conical in section. They frequently present the appearance of having been picked out by a pointed tool, but sometimes the interior of the cavity is smooth. Occasionally the implement presents a cavity on one side only. The purpose of one class of them is indicated by the wear they exhibit on the ends and sides by use as hammer-stones, the cavities being supposed to give a better hold for the fingers and thumb. Others are quite as evidently not hammer-stones, whatever their purpose may have been. They seem to belong, for the most part, to the Stone Age.]

AM 1. Oblong, rounded Pebble of Sandstone, 3 in. long, with indented hollows on both sides, from Dunning, Perthshire.

2. Rounded Pebble of Sandstone, 2½ in. diameter, indented on both flat sides, from Moor of Goldenoch, Leswalt, Wigtownshire — Rev. Thomas Bell, 1862.

3. Flattish, rounded Pebble of Porphyritic Stone, with circular picked cavity on each face, from Haddington — James Robb, 1881.

AM 5.

4. Flattish, Water-worn Pebble of Quartzite, with indented hollows on each face; from Skelmuir, Aberdeenshire—John Keith, 1881.

5. Oval Implement of Quartz, 3¾ × 3¼ in., with oval-shaped depression on one side, and an oblique longitudinal groove on the other, from Dunnichen, Forfarshire—Dr Robert Dickson, 1880.

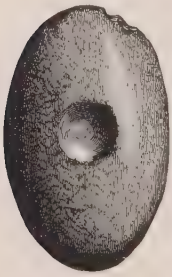
6. Squarish piece of Porphyry, 3½ in., with indented hollow on each face, from Kildrummie, Aberdeenshire—Miss Gordon, 1871.

7. Pebble of Sandstone, with picked hollow on one face, found in a cist with two urns at Barnhill, Forfarshire—*Sturrock Collection*, Purchased 1889.

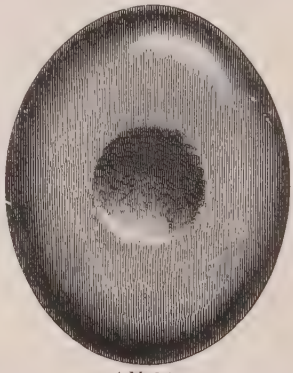
8. Round, flattish Pebble of Gritty Sandstone, with picked hollow on each face,

AM slightly worn at one end by hammering, from Kirkmabreck, Wigtownshire—Sir Herbert Eustace Maxwell, 1889.

9–28. Stone Implements with indented hollows, all found in Wigtownshire, viz.—(**9**) of Silurian sandstone, $3 \times 2\frac{1}{2}$ in., imperfect at one end, abraded at the other, hollowed on each face; (**10**) of gritty sandstone, $4 \times 2\frac{3}{4}$ in., with hollow on each face, and traces of use as a socket-stone, from Gillespic, Old Luce; (**11**) of gritty sandstone, $2\frac{1}{2} \times 2\frac{1}{2}$ in., with roughly-picked hollow on each face; (**12**) of reddish quartzite sandstone, $2\frac{1}{2}$ in. diameter, with hollow on each face, the edge abraded by use; (**13**) of quartzite, oval-shaped, with small picked hollow on one face, from Crow's Nest, Glenluce; (**14**) of granitic stone, $3\frac{1}{2} \times 2\frac{3}{4}$ in., polished, with



AM 10.



AM 14.

smoothly ground central hollow on each face, from Machermore Loch, Old Luce; (**15**) of micaceous sandstone, $2\frac{1}{2} \times 1\frac{3}{4}$ in., with hollow on one side; (**16**) of quartzite sandstone, $1\frac{3}{4} \times 1\frac{1}{4}$ in., with picked hollow on one face, from High Torrs; (**17**) of sandstone, imperfect, with a hollow on each face, from High Torrs; (**18**) of sandstone, split through the centre of its width, the upper face with a picked hollow, from Mid Torrs; (**19**) of sandstone, imperfect, with picked hollow on each face, from High Torrs; (**20**) of quartzite sandstone, $5 \times 3\frac{1}{2}$ in., irregularly formed, with roughly-picked hollow on each face, from East Freugh; (**21**) of quartzite sandstone, 4×3 in., irregularly formed, the edges partly worn by use, from Freugh, Stoneykirk; (**22**) of sandstone, $5\frac{1}{2} \times 4$ in., with picked hollow on each face, from Six Mile Stone; (**23**) of red sandstone, $5\frac{1}{2} \times 4\frac{1}{2}$ in., with hollow on each face, imperfect; (**24**) of red sandstone, $5 \times 4\frac{1}{4}$ in., with picked hollow on each face, from Clachsiant; (**25**) of sandstone, $2 \times 1\frac{3}{4}$ in., with hollow on each side, from Two Mark, Stoneykirk; (**26**) of quartzite sandstone, $3\frac{3}{4} \times 2\frac{1}{4}$ in., with slightly picked hollow on one side, from Six Mile Stone; (**27, 28**) portions of natural water-worn pebbles of sandstone, indented on both sides, from Clachsiant, Stoneykirk—Rev. George Wilson, 1874, 1876, 1881.

29. Oval-shaped Implement of Basalt, $3\frac{1}{4} \times 2\frac{1}{2}$ in., polished, with smoothed circular depression in the centre of each face, from Falkland, Fifeshire—Purchased 1888.

30. Water-worn Pebble of Sandstone, with picked hollow on each face, from West Muir of Drumfad, Auchterarder, Perthshire—Purchased 1890.

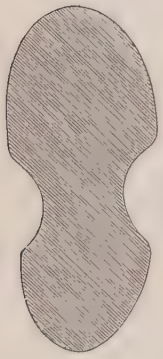
31, 32. Water-worn Pebbles, with indented hollows on both sides, viz.—(**31**) of granite, $2\frac{3}{8} \times 2\frac{1}{4}$ in., from Upper Barr, Wigtownshire; (**32**) of sandstone grit, $2\frac{1}{2} \times 2\frac{1}{4}$ in., from Gillespic, Glenluce—Rev. George Wilson, 1883.

AM **33.** Water-worn Pebble of Sandstone, with picked hollow on each side, imperfect, from Drainie, Elginshire—Purchased 1884.

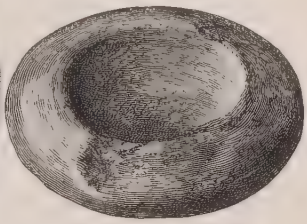
34. Half of Water-worn Pebble, with hollow on each face, from Farm of Newtown, Kinloss—Purchased 1884.

35. Water-worn Block of Sandstone, $10 \times 7\frac{3}{4}$ in., with smooth indented hollow $3\frac{3}{4}$ in. diameter and $\frac{1}{2}$ in. deep on each face, from Kirkinner, Wigtownshire—R. Vans Agnew, 1884.

36. Pebble of Quartzite, $2\frac{5}{16} \times 2\frac{1}{8}$ in., with depression on one side, $1\frac{7}{16} \times 1\frac{1}{4} \times \frac{1}{2}$ in., from Letham, Monimail, Fifeshire—Alexander Macdonald, 1888.



AM 37.



AM 39.

37–43. Water-worn Pebbles of Greenstone and Quartzite, from Wigtownshire, each with depression on either side, viz.—(**37**) from Balcraig, Glasserton; (**38**) very rude; (**39**) from Kidsdale; (**40**) from Kirkcowan; (**41**) from Kirkchrist, Penninghame; (**42**) from Orchardton; (**43**) from Kidsdale—Sir Herbert Eustace Maxwell, 1889.

STONE IMPLEMENTS WITH INDENTED HOLLOWS, &c.

[From other European Countries for comparison.]

Arranged in Wall Case on North Side of Second Floor.

AN **1–21.** (**1–4**) Specimens of stones with indented hollows on both their flat faces, from Ireland—*Bell Collection*, Purchased 1867; (**5–20**) miscellaneous stone implements, from Ireland, viz.—(**5–7**) polishers; (**8**) whetstone of quartz, with a groove on one side; (**9, 10**) stones, each with an indented hollow on one side; (**11**) flattish, oblong stone, with a perforation at one end; (**12, 13**) hammer-stones, one with polished sides and abraded ends; (**14**) oblong oval stone, with a hollow $\frac{7}{16}$ in. wide and $\frac{1}{16}$ in. deep bored on one side; (**15**) stone $1\frac{1}{4}$ in. in diameter, with a groove round the circumference; (**16–18**) stone balls, from County Antrim; (**19, 20**) corn-crushers, one of granite, the other of flint—Sir Herbert Eustace Maxwell, 1889; (**21**) whetstone or slickstone of blackish quartzite, $1\frac{5}{8} \times \frac{5}{8} \times \frac{1}{2}$ in., from Ireland—Sir Herbert Eustace Maxwell, 1889.

STONE IMPLEMENTS, PERFORATED.

In Window Cases, South Side of First Floor.

[The implements in this class are chiefly water-worn pebbles perforated usually near the centre. Sometimes the perforation is towards one end of the implement. They are, therefore, more of the nature of adaptations of naturally-shaped stones to particular purposes than specially manufactured implements. They are of various periods, and have, no doubt, served for various purposes; some, like the partially-shaped triangular implement AO 24, may have been stone-hammers, while others are probably nothing more than makeweights or net or line sinkers.]

AO 1. Perforated Disc of Sandstone, oval, 3 in. diameter, found near Corstorphine—Rev. R. K. D. Horn, 1879.

2. Flat Stone, 5½ in. diameter, perforated, from Tough.

3 Rounded Pebble of Sandstone, 5¾ in. diameter, perforated, from Clachsiant, Stoneykirk—Rev. George Wilson.

4. Rounded Pebble of Sandstone, 6 in. diameter, perforated, from Keiss, Caithness—Samuel Laing, 1867.

5. Disc of Sandstone, 4½ in. diameter, perforated, from Whistleberry Castle, Kinneff—Andrew Jervise, 1865.

6. Rounded Pebble of Red Sandstone, 2¼ in. diameter, perforated, from Balnakellar.

7. Irregular Disc of Sandstone, 3½ × 3 in., perforated, from Fetterangus—J. Keith, 1865.

8–11. Perforated Stone Sinkers, from Slains—James Dalgarno, 1879.

12. Disc of Mica-schist, 2¾ × 2½ in., perforated, from Kingoldrum, Forfar.

13. Circular Disc of Sandstone, 2 in. diameter, pierced with nine holes, from Orkney—Prof. T. S. Traill, 1870.

14. Circular Disc of Steatite, 2¾ in. diameter, from Orkney—George Petrie, 1877.

15. Natural Pebble, 2¾ × 2¼ × ⅝ in., perforated, from Boghead, Pittodrie—Purchased 1881.

16. Disc of Micaceous Schist, roughly chipped, 2¾ × 2½ × ½ in., perforated, from Aberdeenshire—Purchased 1881.

17. Flattish, Oblong, Water-worn Pebble of Grey Sandstone, 4¾ × 4 × 1½ in., perforated, from a cairn on Ythanside, near Methlick, Aberdeenshire—John Keith, 1877.

18–19. Water-worn Pebbles, 1½ in. diameter, perforated, from Urquhart, Elginshire—Rev. James Morrison, 1871.

20. Circular Disc or Ring of Greenstone, 2½ in. diameter, imperfect.

21. Triangular-shaped Pebble of Quartz, 2½ × 3 in., perforated, from Fordoun, Kincardineshire—Purchased 1878.

22. Perforated Stone, 3¼ in. long, found on the Hill of Beith, Ayrshire—Robert Craig, 1879.

23. Circular Stone, 4 in. diameter, perforated, found in the bed of the river Devon, near Alloa—Dr P. D. Handyside.

24. Triangular Stone Implement, perforated, from Balmaclellan, New Galloway—Rev. G. Murray, 1868.

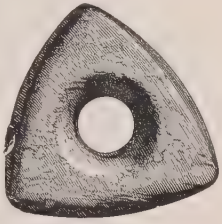
25. Flattish, Oval Stone of Quartz, 3½ × 3 in., perforated.

26–33. From Wigtownshire, viz.—(**26**) 3¼ × 2¾ in., (**27**) 2¼ × 1½ in., water-worn pebbles, perforated; (**28**) of sandstone, roller-shaped, 2 in.

AO long, perforated lengthwise; (**29–31**) fragments of water-worn pebbles, which have been perforated, from Glenluce; (**32**) 2 in. diameter, (**33**) $1\frac{3}{4}$ in. diameter, circular discs, perforated, from Glasserton—Rev. George Wilson, 1876, 1881.

34. Part of a Water-worn Pebble, which had been perforated, $2\frac{1}{4} \times 2$ in., worn by use, from Aberdeenshire—Purchased 1881.

35. Fragment of a Circular Disc, which had been perforated, from Culbin Sands—Rev. George Wilson, 1881.



AO 24.

36–39. Implements, viz.—(**36**) of greenstone, $3 \times 2\frac{3}{4}$ in., perforated; (**37**) pebble, $3\frac{3}{4} \times 2$ in., perforated near the broadest end; (**38**) pebble, $4\frac{1}{4} \times 2\frac{1}{2}$ in., perforated; (**39**) of burnt yellowish clay, circular, $3\frac{1}{2}$ in. diameter, perforated, from Coulter Mains—*Sim Collection*, 1882.

40–45. Perforated Circular Stones, (**43**) broken, from Orkney—George Petrie, 1877.

46. Perforated Water-worn Pebble, $2\frac{3}{4} \times 2\frac{1}{4}$ in., from Glenluce—Rev. George Wilson, 1882.

47. Perforated Disc of Sandstone, $2\frac{3}{4}$ in. diameter, from Drummore—Dr Gemmill, 1883.

48. Triangular-shaped Stone of Diorite, $5\frac{1}{4} \times 4\frac{1}{4}$ in., with large perforation through the centre, from Neidpath—Purchased 1884.

49. Pebble of Sandstone, 3 in. diameter, from Pinkerton, East Lothian—J. Hardy, 1884.

50. Flat, Oval-shaped Pebble of Mica-schist, perforated near the edge, from Perthshire—Purchased 1884.

51. Oblong, Oval Pebble of Micaceous Sandstone, $3\frac{1}{2} \times 2\frac{1}{8}$ in., perforated, from Wigtownshire—Dr Gemmill, 1883.

52. Oblong, Oval Pebble of Sandstone, $3\frac{1}{2} \times 2\frac{3}{8}$ in., with picked hollows $1\frac{1}{2}$ in. diameter on each side, from Pitlochrie, Perthshire—Dr A. Anderson, 1885.

53. Oblong, Oval Pebble of Mica-schist, $4 \times 2\frac{3}{4}$ in., perforated, from Farm of Balfour, Kingoldrum—Mrs Annand, 1886.

54. Circular Pebble of Sandstone, $2\frac{5}{8}$ in. diameter, with perforation picked from each side, from Toab, Kirkwall—Purchased 1887.

55. Oblong, Oval Pebble of Granitic Stone, $3\frac{1}{4} \times 2\frac{3}{4}$ in., perforated, from Illeray, North Uist—Purchased 1887.

56. Oval-shaped Pebble of Greenstone, with perforation picked from each face, from Lindertis, Airlie—David Low, 1887.

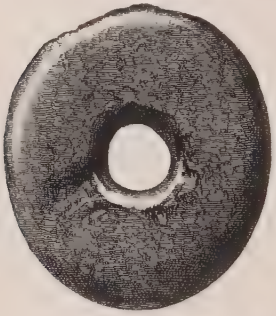
57. Pebble of Sandstone, $4\frac{5}{16}$ in. diameter, with perforation $1\frac{3}{8}$ in. diameter, from Dolphinton—Purchased 1888.

58. Pebble of Sandstone, $2\frac{1}{16}$ in. diameter, with perforation picked from each side, from Overhowden, Oxton, Lauder—Purchased 1888.

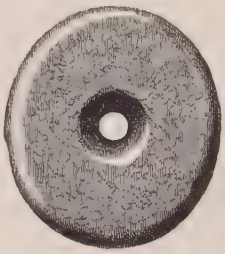
59. Oval, Flattish Whinstone Pebble, $3\frac{15}{16} \times 2\frac{7}{8}$ in., perforated, from Kemps-cairn, Keith—*Linn Collection*.

60–77. Perforated Pebbles, mostly of Sandstone, from Wigtownshire, viz.—(**60**) $4 \times 2\frac{1}{8}$ in., from Kirkchrist, Penninghame; (**61**) $3\frac{3}{4} \times 2\frac{3}{4}$ in., from Craiglemnie; (**62**) $3\frac{3}{8} \times 3$ in., from Penninghame; (**63**) $3\frac{1}{2} \times 2\frac{5}{8}$ in., imperfect, from Stewarton; (**64**) $2\frac{3}{4} \times 2\frac{5}{16}$ in., from Mochrum; (**65**) $4\frac{1}{2} \times 3\frac{7}{8}$ in., from Stewarton; (**66**) $3\frac{1}{8} \times 2\frac{3}{4}$ in., from Kirkcowan; (**67**) rude and imperfect, $3\frac{3}{8} \times 2\frac{5}{8}$ in., from Carleton; (**68**) $4 \times 3\frac{3}{4}$ in.; (**69**) $2\frac{7}{16} \times 2\frac{1}{8}$

AO in., from Balcraig; (**70**) half only, $2\frac{5}{16}$ in.; (**71–75**) precise localities unknown; (**76**) rudely formed, 2 in. diameter, perforation picked from each face, from Craiglemnie; (**77**) of red sandstone, $2\frac{1}{8}$ in. diameter—Sir Herbert Eustace Maxwell, 1889.



AO 67.



AO 69.

78. Rudely-formed Pebble of Micaceous Stone, perforated, from Tannadice, Forfarshire—Purchased 1888.

79. Oblong, Flattish Pebble of Micaceous Stone, partially perforated from each side, from Littleton, Lindertis, Airlie—T. R. Nicoll, 1889.

80–82. Perforated Pebbles of Whinstone, from Machermore, Wigtownshire—Purchased 1888.

83. Oval-shaped perforated Pebble of Sandstone, from river Cree, Galloway—Purchased 1888.

84. Lozenge-shaped Pebble of Sandstone, with perforation picked from each face, from Mouswald, Dumfriesshire—Charles Carruthers, 1889.

85, 86. Small Water-worn Pebbles of Gritty Sandstone, each perforated, from Berwickshire—Purchased 1889.

STONE IMPLEMENTS, PERFORATED.

[From other European Countries for comparison.]

Arranged in Wall Case on North Side of Second Floor.

AP 1–14. (**1–10**) Circular flattish perforated stones, from Ireland—*Bell Collection;* (**11, 12**) flat, oblong perforated stones, $3\frac{1}{2}$ in. and 4 in. long, from Calabria, Italy—Robert Allen, 1835; (**13**) circular pebble of granite stone, $2\frac{1}{4}$ in. diameter, with hole $\frac{3}{8}$ in. diameter through the centre, from Paris, France—Sir Herbert Eustace Maxwell, 1888; (**14**) pebble of sandstone, $2\frac{1}{16}$ in. diameter, with small perforation through the centre, from Antrim, Ireland—Sir Herbert Eustace Maxwell, 1888.

STONE CUPS.

In Wall Case between Arches on South Side of First Floor.

[Stone cups are of two varieties, with or without side-handles. The handles are mostly short, and in many cases perforated, as if for the passage of a thong for attachment or suspension. The material of which these cups are made is mostly sandstone, claystone, or steatitic stone. They are frequently ornamented on the exterior surface, sometimes by a moulding under the brim, sometimes by incised bands of zigzag lines. One shows the outline of a fawn upon the upper surface of the handle. These stone cups appear to be mostly of Iron Age dates, or even later. They have not been found with interments, but there are several instances of their occurrence in brochs, in one case close by the mouth of a well in the interior court of the broch. They were probably in general use as drinking-cups.]

AQ 1. Stone Cup with Handle, rudely made from a block of micaceous schist, 5 × 5 × 2 in., from near Strath Tay—Dr Arthur Anderson, 1877.

2–5. Ladle-like Vessels of Steatite, with straight handles, the largest 7 in. internal diameter, the smallest 4½ in. (two imperfect), from Unst, Shetland—Rev. Z. M. Hamilton, 1870.

6, 7. Fragments of Vessels of Steatite, from Walls and Unst, Shetland—Rev. A. Prentice, 1875.

8. Cup of Claystone, 3 in. diameter, bottom imperfect, with chevron ornamentation, handle perforated, with a fawn carved upon it, from Binney Craig, Linlithgow—W. Horn Henderson, 1868.

9. Oblong Cup of Steatitic Stone, 4 × 3 in., handle broken off, found with flint knife (AA 15) at Blelack, Aberdeenshire—Dr A. Robertson, 1867.

10, 11. Cups, viz.—(**10**) of micaceous stone, 3½ in. diameter, upper part ornamented by two raised bands, handle perforated; (**11**) of steatitic stone, 3½ in., with handle, both found on the Farm of Crookmore, Parish of Tullynessle, Aberdeenshire—Dr John Stuart, 1838 and 1853.

12, 13. Cups, locality unknown—Purchased 1855.

14. Circular Cup of Steatite, 5¼ × 2¼ in., with handle, found near Killilan, Lochalsh, Ross-shire—*Sim Collection*, Mrs White, 1882.

15. Cup from Walls, Shetland, 4½ in. diameter, 2½ in. deep—Dr Arthur Mitchell, 1877.

16. Rude Circular Cup of Sandstone, 3¾ in. internal diameter, from the Laws, Monifieth—A. Jervise, 1855.

AQ 10, 23

17. Portion of large Vessel of Red Sandstone, from Fair Isle—G. H. Thoms, 1878.

18. Cup, 3¾ in., with perforated handle (locality unknown)—Prof. Wilson, 1783.

19. Circular Cup of Steatitic Stone. 4 in., with perforated handle, found near Taymouth Castle, Perthshire—Marquess of Breadalbane, 1850.

20. Cup of Steatitic Stone, 3½ in., with perforated handle, from a moss at Kilmuir, Skye—Rev. Alexander Macgregor, 1853.

AQ 21. Cup of Micaceous Stone, 3½ in., with straight handle, found near Castle Newe, Strathdon, Aberdeenshire—John Glennie, 1863.

22. Cup of Steatitic Stone, 3¼ in., with perforated handle, from Barryhill, Perthshire—Captain Ogilvie, 1864.

23. Cup of Steatitic Stone, 3½ in., handle perforated, with lozenge-shaped ornament, from a broch in Caithness—The Earl of Buchan, 1785.

24. Cup, 5 in. diameter, handle broken, with a hole in the bottom, from Corry Charmaig, Glenlochy, Killin—Rev. Andrew Meldrum, 1880.

25. Cup of Sandstone, ribbed on the outside, 2½ in. diameter, from a cairn at Breckigoe, Thrumster, Caithness—D. Coghill, 1869.

26. Cup of Micaceous Stone, 3¼ in., handle broken off, ornamented with incised lines, from Cairndard, Aberdeenshire—Rev. A. Milne, 1869.

27, 28. Cups, viz.—(**27**) of steatitic stone, 3½ in., with remains of handle, ornamented with incised lines; (**28**) of micaceous sandstone, 2¼ in., handle ornamented with bosses, from a "Pict's House," Knockargity, Aberdeenshire—Hon. A. Gordon, 1865.

29–31. Shallow Vessels of Steatite, squarish in form, from Shetland—Mrs Hope, 1859.

32. Oblong Cup of Steatitic Stone, 3 in., handle shaped like an animal's head, ornamented with incised lines, from Newton of Auchingoul, Inverkeithing, Banffshire—Dr John Stuart, 1853.

33. Cup of Steatitic Stone, 2½ in., with handle, ornamented with incised lines round the rim, from How of Hoxay, South Ronaldsay—W. B. Allan, 1831.

34. Oblong Cup of Steatitic Stone, 2¾ in., with portion of handle, from Janetstown, Cairney, Aberdeenshire—G. M'Willie, 1869.

35. Circular Cup of Claystone, 2¾ in., with portion of handle from Atholl—James Smith, 1836.

36. Oblong Cup of Steatitic Stone, 2¾ in., with handle, ornamented with lines round the rim, from Rosehall, Sutherlandshire—Lawson Tait, 1870.

37. Cup of Micaceous Sandstone, 3 in., with perforated handle, from Balmoral—Rev. J. G. Michie, 1863.

38. Cup, imperfect, with handle, from Strathdon—Mr Riach, 1863.

39. Cup of Greenstone, 4 × 2 in., handle imperfect, locality unknown—*Sim Collection*, Mrs White, 1882.

40. Cup of Sandstone, 2¼ in., from Edzell, Forfarshire—David Robertson, 1863.

41. Oblong Cup of Gneiss, 2½ in., from Birse, Aberdeenshire — James Drummond, R.S.A.

42. Cup-like Vessel of Granite, 1½ in., from Cloister Seat, Udny—Charles S. Temple, 1863.

43. Wooden Cup with Handle, from Watten, Caithness—Alexander Begg, 1878.

44. Part of Cup of Red Sandstone, from Orkney—George Petrie.

45, 46. Oblong Cups of Sandstone, viz.—(**45**) smoothed, 5½ × 4 in., from Gillies; (**46**) 13 × 6½ in., from Fair Isle—John Bruce, 1882.

47. Cup of Micaceous Schist, 5½ in. diameter, handle broken, from Black Isle, Ross-shire—J. C. Ross, 1882.

48, 49. Cups from Shetland, viz.—(**48**) of steatite, 4 in. diameter; (**49**) oblong, 4½ × 3¼ in.—*Lerwick Collection*, Purchased 1882.

50. Small Ornamented Cup of Bituminous Shale, 3⅞ × 2⅝ in., polished, part of lip broken off—*Lerwick Collection*, Purchased 1882.

AQ 51-59. Casts of Stone Cups found in Aberdeenshire, from the originals in the collection of the donor, viz.—(**51**) 4 in. diameter, ornamented with three bands of zigzag patterns below the rim, handle perforated, from Methlick; (**52**) 4 in. diameter, with band of "herring-bone" pattern below the rim, handle perforated, from Knockwham; (**53**) 4 in. diameter, ornamented with two lines below the rim, handle perforated, from Cromar; (**54**) $3\frac{1}{2}$ in. diameter, imperfect, rudely ornamented with perpendicular lines, the handle partially perforated, from Aberdeen; (**55**) rudely formed from a triangular-shaped pebble, from Alford; (**56**) $4\frac{5}{8}$ in. diameter, imperfect, from Lumphanan; (**57**) $4\frac{7}{8}$ in. diameter, imperfect, the handle partially perforated, from Pitcaple; (**58**) $4\frac{1}{4} \times 2\frac{5}{8}$ in., the cavity $\frac{5}{8}$ in. deep, from Rhynie; (**59**) 5 in. diameter, without handle, from Cowie, Kincardineshire—John Rae, 1884.

60. Cup of Sandstone, rudely formed, with cavity $\frac{7}{8}$ in. deep, from Wilton, Hawick, Roxburghshire—Purchased 1886.

61. Cup of Steatite, rude, 5 in. diameter, handle perforated, ornamented by two raised bands round the edge, from a mound of burnt stones near Kenny's Hillock, Urquhart, Elginshire—Rev. James Morrison, 1887.

62. Cast of a Stone Cup, $5\frac{1}{2}$ in. diameter, handle perforated, ornamented with the "herring-bone" pattern round the edge, from Farr, Inverness-shire—Dr Arthur Mitchell, C.B., 1887.

63. Cup of Steatitic Stone, with cavity 4 in. diameter, ornamented on outside by "herring-bone" pattern, handle perforated, from Needless, near Perth—Dr R. de Brus Trotter, 1887.

AQ 63.

64. Cup of Sandstone, $5\frac{1}{4}$ in. diameter, rudely formed, ribbed on the outside, from Kirk Andreas, Kirkcudbright—Purchased 1888.

65. Cup of Micaceous Stone, slightly oblong in shape, with perforated handle, from Culbin Sands, Elginshire—Purchased 1887.

66, 67. Cups from Aberdeenshire, viz.—(**66**) of quartzy sandstone, $4\frac{1}{4}$ in. in greatest diameter, with raised band of zigzag pattern, short handle, from Fyvie; (**67**) of steatite, 4 in. diameter, plain, with perforated handle, from Tarland—*Sturrock Collection*, Purchased 1889.

68. Cup of Granite, $3\frac{7}{8}$ in. diameter, with projecting imperforate handle, from Elgin—*Sturrock Collection*, Purchased 1889.

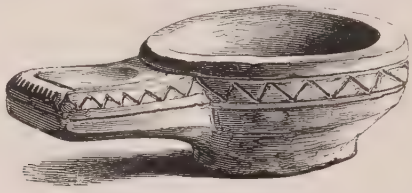
69. Cup of Indurated Sandstone, $4\frac{1}{8}$ in. diameter, ornamented with incised herring-bone pattern, from Aberdeenshire—Purchased 1891.

STONE CUPS.

[From other European Countries for comparison.]

In Wall Case on North Side of Second Floor.

AR 1-3. (1) Cast of a cup, 4 in. diameter, from the Isle of Man ; (2) circular cup of steatitic stone, 4 in. diameter, with perforated handle, from Antrim,



AR 3.

Ireland ; (3) cup of sandstone, 3½ in., handle flat, with chevrony border, formerly used as a chafing-dish in the Faroe Isles—Sir W. C. Trevelyan, 1857.

ORNAMENTED OR POLISHED STONE BALLS, &c.

In Floor Case at East End of First Floor on South Side.

[These ornamented stone balls are peculiar to Scotland. The smoothly rounded and polished form has been occasionally found in apparent association with interments ; but those with projecting discs or knobs have only been found casually, and for the most part not in circumstances of specific association. They are of several varieties, with three, four, or six discs, or with many small knobs or bosses over the whole surface. Their use is unknown, although it has been suggested that they may have been stone mace-heads, similar to some of the maces shown in the Bayeux Tapestry. They are sometimes highly ornamented, the style of ornament incised on the discs being that of the Iron Age. A specimen in bronze (AS 39), which is unique, shows a very characteristic example of the ornamentation of that period.]

AS 1. Ball of Dark Claystone, 2⅞ in. diameter, with grains of gold adhering to its surface, from Kildonan, Sutherlandshire—Dr Lauder Lindsay, 1877.

2. Ball, 2¾ in. diameter, with six projecting knobs (imperfect), from Wester Kinleith, Luthrie, Fifeshire—Robert Milne, 1882.

3. Ball, 2¾ in. diameter, with five discs, ornamented with small knobs, in concentric circles, found near Fordoun, Kincardineshire—Rev. James Gammack.

4. Ball, 2½ in. diameter, with six projecting discs, from Migvie, Aberdeenshire—J. Jeffrey, 1872.

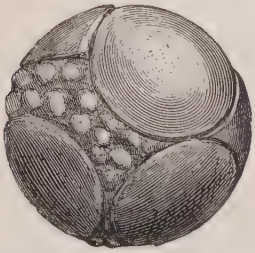
5. Ball, 2¾ in. diameter, with seven circular discs, from Urlair, near Aberfeldy, Perthshire—J. S. Peter, 1881.

6. Ball, 2⅞ in., with six projecting discs, and interspaces partially cut into knobs, from Craig Beg, Ballater, Aberdeenshire—John Begg, 1864.

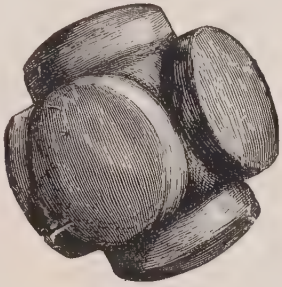
7. Ball of Coarse-grained Bluish Sandstone, 2¾ in., with seven projecting discs, from Inverkeithny, Aberdeenshire—Rev. John Soutar, 1873.

AS 8. Cast of Ball, 3 in., with five projecting discs, found near Methlick, Aberdeenshire.

9. Ball, 3 in., showing six circular knobs, from Montblairy, Banffshire—Mrs Morrison, 1864.



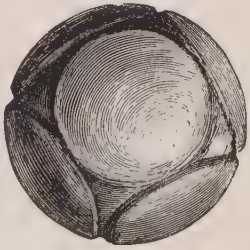
AS 6.



AS 9.

10. Ball, 3 in. diameter, with five projecting discs, and incised ornaments, found on the Glass Hill, Towie, Aberdeenshire—James Kesson, 1860.

AS 10.



AS 14.

11. Cast of a Stone Ball, $2\frac{7}{8}$ in. diameter, with five discs, one bearing incised spiral lines, found near Elgin.

12. Ball, 3 in. diameter, with six projecting knobs, one ornamented with incised cross lines, from Loch Lochy, Inverness-shire—Rev. A. Clark, LL.D., 1881.

13. Ball of Quartzite Sandstone, $2\frac{5}{8}$ in., with six circular facets, one ornamented with parallel lines, from Argyllshire—Mrs Campbell, 1880.

14. Ball, $2\frac{3}{4}$ in., with six discs, from Dumfriesshire—James Brown.

15. Ball of Fine-grained Sandstone, $2\frac{3}{4}$ in., with six circular facets, from Benicheilt, Latheron, Caithness—G. Sinclair, 1881.

16. Ball of Clay Ironstone, $2\frac{1}{2}$ in. diameter, with four circular discs, from the Water of Leith—John Henderson, 1878.

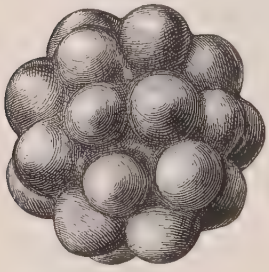
AS 17. Cast of Stone Ball, $2\frac{5}{8}$ in. diameter, with circular facets, ornamented, found near Perth.

18. Ball, $2\frac{1}{2}$ in. diameter, with incised circles imperfect, found near Auchinblae, Kincardineshire—G. Mill, 1875.

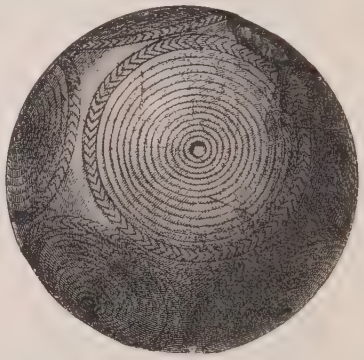
19. Ball, $2\frac{3}{4}$ in. diameter, with six projecting knobs, from Kinkell, Inverurie, Aberdeenshire—William Rae, 1881.

20–22. Cast of Stone Balls, viz.—(**20**) $2\frac{7}{8}$ in. diameter, with projecting knobs, from Monymusk; (**21**) 3 in. diameter, with six knobs, from Kintore; (**22**) $2\frac{5}{8}$ in. diameter, with six circular facets, from Fyvie, Aberdeenshire—John Rae, 1881.

23. Ball, 3 in. diameter, covered with small projecting knobs, from Skye—Sir Kenneth J. Mackenzie, 1861.



AS 23.



AS 29.

24, 25. Casts of Stone Balls, $2\frac{3}{4}$ and 3 in. diameter, from near Dunfermline, Fifeshire.

26. Cast of Ball, from Freelands, near Glasterlaw, Forfarshire.

27. Ball of Grey Sandstone, $2\frac{3}{4}$ in. diameter, with six projecting facets, from Grange, Lindores, Fife—James Marr, 1878.

28. Ball, $2\frac{5}{8}$ in. diameter, covered with projecting knobs, from Garvock Hill, Kincardineshire—J. S. Gibb, 1861.

29. Ball of Sandstone, $2\frac{3}{4}$ in. diameter, with circular spaces filled with concentric circles, from Fordoun, Kincardineshire—Purchased 1878.

30. Ball of Felspathic Stone, 3 in. diameter, with eight projecting knobs (imperfect), from St Vigeans, Forfarshire—Rev. William Duke, M.A., 1882.

31. Ball of Felspathic Stone, $2\frac{5}{8}$ in. diameter, with six projecting knobs, from Biggar—*Sim Collection*, Mrs White, 1882.

32, 33. Casts of Stone Balls, one perforated, both with projecting knobs, from Skaill, Orkney.

34. Ball with Polished Surface, 3 in. diameter, from Backaskaill, Westray, Orkney—George Petrie.

35. Ball, $1\frac{3}{4}$ in. diameter, from Orkney—George Petrie, 1877.

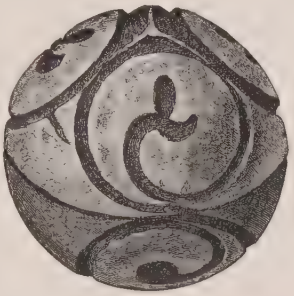
36. Ball, $2\frac{7}{8}$ in. diameter, with smooth polished surface (locality unknown).

37. Ball found with the cup (AQ 25) in a cairn at Breckigoe, Thrumster, Caithness—D. Coghill, 1869.

38. Cast of Carved Ball, from Hillhead, near Kirkwall, Orkney—J. W. Cursiter, 1882.

AS 39. Bronze Ball, 1½ in. diameter, ornamented with spiral lines, from Walston, Lanarkshire—*Sim Collection*, Mrs White, 1882.

40. Ball of Serpentine, 2 in. diameter, from the Mound, Papa Westray, Orkney — William Traill, 1883. [See also HR 193–208.]



AS 39.

41. Circular Ball of Conglomerate, 2½ in. diameter, found near the Old Castle, Pithearlis—A. G. Reid, 1883.

42. Ball of Sandstone, with five projecting discs (the sixth broken off), ornamented with incised lines and dots, from Newburgh, Fifeshire—Dr Alexander Laing, 1883.

43. Ball, 3⅛ in. diameter, partly polished —*Lerwick Collection.*

44. Ball, 3⅜ in. diameter, from Kirkwall, Orkney—George Petrie.

45. Ball of Conglomerate, 3 in. diameter, from Kingoldrum—Rev. J. O. Haldane, 1884.

46–57. Casts of Stone Balls from Aberdeenshire, viz. (**46**) 2¾ in. diameter, with four facets, found at Dyce ; (**47**) 2¾ in. diameter, with six circular discs, from Leslie ; (**48**) 2⅝ in. diameter, with six projecting discs, from Red Moss, Belhelvie ; (**49**) 2¾ in. diameter, with six projecting discs, from Kinellar ; (**50**) 2¾ in. diameter, with six projecting discs, from Methlick ; (**51**) 2⅞ in. diameter with six projecting discs, from Fyvie ; (**52**) slightly ovoid, 3⅛ × 2¾ in. diameter, with five projecting discs, from Newhills ; (**53**) 3⅛ in. diameter, with four small and four large projecting discs, from Methlick ; (**54**) 2½ in. diameter, covered with small knobs, from Countess Wells ; (**55**) 3⅞ in. diameter, covered with small knobs, from Rhynie ; (**56**) 3 in. diameter, one side bearing six small knobs, the remaining surface plain, from Insch ; (**57**) 3 in. diameter, with six projecting knobs, from Morayshire—John Rae, 1885.

58. Ball of Greenstone, unornamented, 1¼ in. diameter, from Berwickshire—George Robertson, 1885.

59. Cast of Ball of Sandstone, 2⅝ in. diameter, covered with projecting knobs, from Stenness, Orkney—Purchased 1885.

60. Ball of Greywacke, 2¾ in. diameter, with six projecting discs, three of which are imperfect, from near Banff—Purchased 1886.

61,62. Balls from New Keig, Aberdeenshire, viz.—(**61**) of quartzite, 2½ in. diameter, with four projecting discs ; (**62**) of greenish coloured stone, 2 in. diameter, unornamented—Purchased 1886.

63. Ball of Sandstone, 3 in. diameter, unornamented, from South Ronaldsay —Purchased, 1887.

64–69. Casts of Stone Balls from Aberdeenshire, viz.—(**64**) 2⅞ in. diameter, with six projecting knobs, one imperfect, from Aboyne ; (**65**) 3 in. diameter, with six projecting knobs, from Leochel-Cushnie ; (**66**) 2⅞ in. diameter, with six projecting knobs, from Kennay ; (**67**) 2½ in. diameter, with four projecting knobs, from Udny ; (**68, 69**) each 3 in. diameter, with six projecting knobs, from Turriff—Dr Arthur Mitchell, C.B., 1887.

70. Ball of Granitic Stone, 2½ in. diameter, from Tannadice, Forfarshire—Purchased 1887.

71. Ball of Fine Sandstone, 2⅝ in. diameter, with four plain circular facets, each 1⅝ in. diameter, found in Aberdeenshire—Purchased 1888.

AS 72. Ball of Whinstone or Grit, $2\frac{11}{16}$ in. diameter, with six circular facets, each $1\frac{11}{16}$ in. diameter; found at Mill of Cromdale, Strathspey—*Linn Collection.*

73. Half of a Ball of Claystone, $2\frac{3}{4}$ in. diameter, showing one complete circular facet and portions of three others, from Stellock, Wigtownshire—Sir Herbert Eustace Maxwell, 1889.

74. Ball of Granite, $2\frac{7}{8}$ in. diameter, with six circular facets, from Mugdrum Island, near Abernethy, Perthshire—Purchased 1888.

75. Cast of a Stone Ball, $2\frac{11}{16}$ in. diameter, with six projecting discs, one of which is imperfect, the original from Keills, Islay—Purchased 1888.

76. Ball of Quartz Sandstone, $2\frac{5}{8}$ in. diameter, with four projecting discs, from Herschel Hill, Fordoun, Kincardineshire—Purchased 1889.

77–81. Stone Balls from Aberdeenshire, viz.—(**77**) of granitic stone, $2\frac{3}{4}$ in. diameter, with seven slightly raised knobs; (**78**) of greenstone, $2\frac{13}{16}$ in. diameter, with six projecting discs; (**79**) of granite, $3\frac{1}{16}$ in. diameter, with six projecting bosses, from Auchterless; (**80**) of greenstone, 3 in. diameter, with fifty-three small projecting knobs, from Fyvie; (**81**) of greenstone, $2\frac{5}{8}$ in. diameter, with 15 projecting knobs, four of which are imperfect, from Fyvie—*Sturrock Collection.*

82. Ball of Granitic Stone, 3 in. diameter, with six projecting bosses, from Methven Wood, Perthshire, in 1827—*Sturrock Collection.*

83, 84. Balls of Granite, from Forfarshire, viz.—(**83**) $2\frac{15}{16}$ in. diameter, with six projecting discs, from West Ferry, near Dundee; (**84**) $3\frac{1}{16}$ in. diameter, with six projecting discs, from Kirriemuir—*Sturrock Collection.*

85–89. Casts of Stone Balls, from Aberdeenshire, the originals in the collection of late Mr John Rae, viz.—(**85**) $2\frac{7}{8}$ in. diameter, with seven projecting knobs, from Turriff; (**86**) $2\frac{5}{8}$ in. diameter, with six projecting knobs, from Tarves; (**87**) $2\frac{7}{8}$ in. diameter, with six projecting knobs, the triangular intervening spaces of the same height as the others, from Bethelnie Hill, Tarves; (**88**) $2\frac{5}{8}$ in. diameter, the surface covered with small projecting knobs, found near Peterhead; (**89**) 3 in. diameter, with twenty-two knobs, and portion of iron fastened in—Purchased 1890.

90. Ball of Gritty Sandstone, $2\frac{11}{16}$ in. diameter, with four projecting knobs, probably from Aberdeenshire—Purchased 1890.

91. Ball of Granitic Stone, $2\frac{3}{4}$ in. diameter, with three large circular discs, one imperfect, and two raised triangular spaces, from Buchromb, Banffshire—Purchased 1890.

92, 93. Balls of Gritty Sandstone, from Aberdeenshire, viz.—(**92**) 3 in. diameter, with four large and four small knobs; (**93**) $2\frac{3}{4}$ in. diameter, with four large projecting knobs—Purchased 1890.

94. Ball of Quartzite Sandstone, $2\frac{3}{4}$ in. diameter, with six projecting circular bosses, the spaces between filled with raised triangles, from Caithness—Purchased 1890.

95–97. Balls of Quartzite-Sandstone, from Aberdeenshire, viz.—(**95**) $2\frac{5}{8}$ in. diameter, with four projecting circular discs, two of which are imperfect; (**96**) $2\frac{7}{8}$ in. diameter, with six projecting circular discs, the spaces between filled with raised triangles, both from Deeside; (**97**) $2\frac{15}{16}$ in. diameter, with six bosses, from Oyne—Purchased 1890.

98. Ball of Gritty Sandstone, $2\frac{5}{8}$ in. diameter, with about twenty-five small projecting knobs, locality unknown—Purchased 1890.

99. Ball of Sandstone, $2\frac{3}{4}$ in. diameter, in the form of four projecting knobs, from Olrig, near Castletown, Caithness—William Ross, 1891.

100–105. Balls of Gritty Sandstone, from Aberdeenshire, viz.—(**100**) $2\frac{3}{4}$ in. diameter, with four knobs; (**101**) $2\frac{9}{16}$ in. diameter, with four large knobs;

AS (**102**) $2\frac{13}{16}$ in. diameter, with four large knobs partly ornamented with incised concentric circles; (**103**) $2\frac{11}{16}$ in. diameter, with four large and nine small circular knobs, and two of triangular shape; (**104**) 3 in. diameter, with six large bosses; (**105**) $2\frac{7}{8}$ in. diameter, with four bosses, two of which are ornamented with concentric circles—Purchased 1891.

STONE BRACERS OR WRIST GUARDS.

In Table Case at East End of First Floor, on North Side.

[These objects, designed to protect the left wrist from the recoil of the bow-string, are chiefly found with interments (see EQ 133 and 134) of the late Stone and early Bronze Ages. They are often formed of a greenish chlorite or veined slate and are very beautifully made. They vary considerably in size, as well as in shape, some being curved, others flat, or even with slight convexity of surface. Most of them have a hole at each corner, though some have only one hole in the middle of each end.]

AT 1-6. Bracers or Wrist Guards, viz.—(**1**) of sandstone, plano-convex in section, $2\frac{1}{4} \times \frac{5}{8}$ in., with two perforations, from Mid Torrs, Glenluce—J. M'Murtie, 1876; (**2**) of greenish claystone, imperfect, $2\frac{1}{2} \times \frac{3}{4}$ in., perforated at one end, from Rinnachie, Strathdon, Aberdeenshire—Alexander Anderson, 1863; (**3**) of polished veined slate, $3\frac{1}{4} \times \frac{7}{8}$ in., with perforation at each end, found at Broadford Bay, Isle of Skye—Alexander Mackinnon, 1832; (**4**) of polished slate, $2\frac{5}{8} \times 1\frac{7}{8}$ in., curved, with row of punctulations at one end, and a small hole at each of the four corners, from a chambered cairn at Corry, Broadford Bay, Isle of Skye—Mrs L. Mackinnon, 1832; (**5**) half only, of polished slate, $1\frac{1}{8} \times 1\frac{3}{8}$ in., with three holes at one end, from Rayne, Aberdeenshire—C. E. Dalrymple, 1857; (**6**) portion only, of grey slate, $2\frac{1}{2} \times 1\frac{1}{4}$ in., perforated at one end, found on the Lomond Hills, Fife—Lieut.-Col. Miller, 1829.

STONE BRACERS OR WRIST GUARDS.

[From Ireland.]

In Floor Case, North Side of Second Floor.

AU 1, 2. Bracers or Wrist Guards, viz.—(**1**) of serpentine, $3\frac{1}{4} \times \frac{3}{4}$ in., with a perforation at both ends—*Bell Collection;* (**2**) of veined slate, $3\frac{1}{2} \times \frac{3}{4}$ in., with perforation at each end—James Chisholm, 1879.

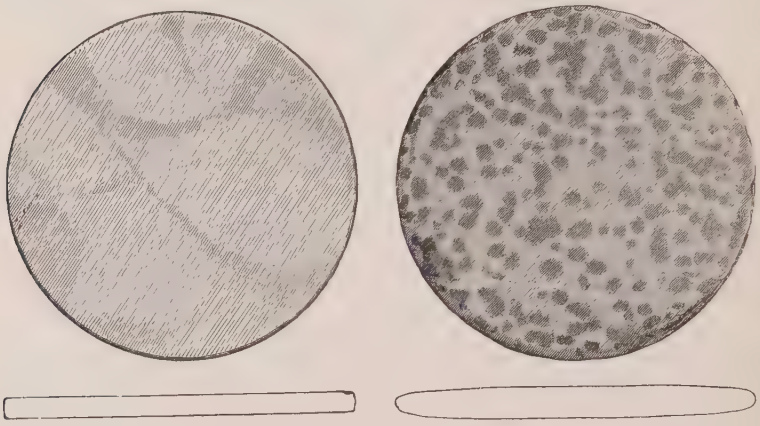
DISCS OF POLISHED STONE.

In Table Case, East End of First Floor, North Side.

[These circular discs of polished stone, so far as any indication of their association has been discovered, belong rather to a late than to an early period. They have been found in Brochs and Lake Dwellings, and may thus be assigned to the Iron Age. Their precise use is unknown, but it has been suggested that they may have been home-made substitutes for mirrors of metal, which would be scarce and costly. When dipped in water they would make tolerably fair substitutes for mirrors to people who had no other kind.]

AV 1-9. Polished Discs, viz.—(**1**) of marble, $2\frac{3}{4}$ in. diameter, found in a tumulus in Westray, Orkney—Prof. T. S. Traill, 1870; (**2**) of mica-schist, 3 in. diameter—*Lerwick Collection;* (**3**) of mica-schist, $2\frac{3}{4}$ in. diameter, from

AV Urquhart, Elginshire—Rev. James Morrison, 1873 ; (**4**) of mica-schist, 3¼ in. diameter, from Orkney—*Petrie Collection*, Purchased 1876 ; (**5**, **6**) of mica-schist, chipped on the edges, one 2¼ in., and the other 1 in. diameter ;



AV 1 and 3.

(**7**) of serpentine, 1 in. diameter, found in a Pict's House in Orkney ; (**8**) of mica-schist, 3 in. diameter, from Haddington—James Robb, 1883 ; (**9**) of quartzite, 2⅝ in. diameter, probably from Wigtownshire—Sir Herbert Eustace Maxwell, 1888.

SOCKET AND PIVOT STONES.

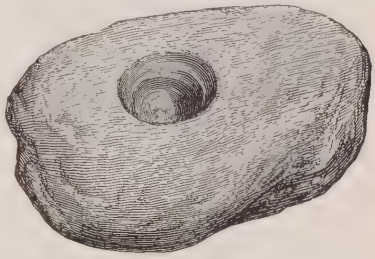
In Floor Case, on Ground Floor, East End of South Side.

[The implements in this and the next two classes (AW, AX, AY) are principally adaptations of naturally shaped water-rolled pebbles. They belong to recent times. The socket-stones are of two varieties. The larger-sized (like AW 4) have usually single sockets, worn by the revolutions of the pivot-stone (AW 25) inserted in the heel of a field gate. The smaller-sized have generally a cluster of socket-holes made by the revolution of the iron spindle of the upper mill-stone of an old-fashioned meal or barley mill. The stone was imbedded in a beam of wood, and turned or shifted successively to the positions of the several holes as the one last in use became too deeply worn. The pivot or spindle-stones were simply oblong pebbles of convenient shape, inserted in the heel of a wooden gate, and inverted when the lower end became too much worn.]

AW 1–10. Socket-stones, viz.—(**1**) of quartzite, with hollow 2½ in. diameter, and 2 deep on each side, from Kinrara, Alvie—Dr Arthur Mitchell; (**2**) of quartzite, with three hollows on one side, and four on the other—Sir Walter Simpson, 1870 ; (**3**) of white quartz, 4½ × 3½ × 3 in., with hollows on both sides, from Logierait, Ballinluig—Rev. A. Meldrum, 1880 ; (**4**) of quartzite, with hollow 2¾ × 2 in. ; (**5**) of granite, imperfect, with hollow 2¾ × 1¼ in., both from Cromar, Aberdeenshire—Rev. G. Davidson, 1875 ; (**6**) of red quartz, hollows on both sides, from King's Muir, Forfar—George Sim, 1877 ; (**7**) of quartzite, hollows on both sides, from Slains—J. Anderson, 1876 ; (**8**) from Thomchalan, Moulin, near Pitlochry—Dr Arthur Anderson, 1880 ; (**9**) from Glen Nevis—Dr Arthur Mitchell,

AW 1877; (**10**) of whinstone, from Panlathy Mill, Forfarshire — James Duncan.

11-13. Socket-stones, viz.—(**11**) of quartzite, locality unknown; (**12**) of quartzite, with hollows on each side, from Finstown, Firth, Orkney—G. Petrie, 1876; (**13**) locality unknown—*Bell Collection.*



AW 4.

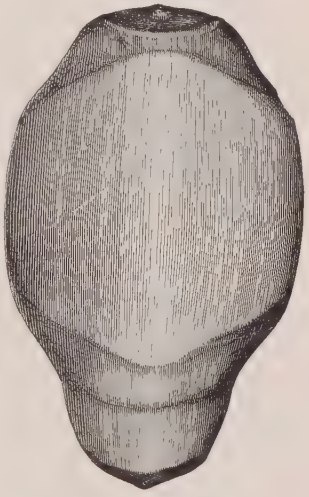
14. Socket-stone of Quartzite, found in the Forth near Stirling — David Stevenson, C.E., 1877.

15-17. Socket-stones of Water-worn Pebbles, from Glenluce —Rev. George Wilson, 1881.

18-19. Socket-stones, Boulders of Sandstone, viz. — (**18**) with hollow $2\frac{1}{2} \times 1\frac{1}{4}$ in., from Dunrossness — Gilbert Goudie, 1875; (**19**) from Clickamin —William Gray, 1877.

20-22. Stone "bushes" for horizontal spindles of wheels, viz.—(**20**) by James Chisholm, 1880; (**21, 22**) localities unknown—*Sim Collection.*

23-27. Pivot-stones, viz.—(**23**) from Haybog, Tough, Aberdeenshire—Rev. A. Milne, 1868; (**24**) of quartzy sandstone, from Galloway—Rev. G. Murray, 1874; (**25**) of quartzite, $3\frac{1}{4}$ in. long, from Logie-Coldstone, Aberdeenshire—Dr Arthur Mitchell, 1875; (**26**) of serpentine, imperfect, found near Ardoch, Perthshire—Peter Jack, 1875; (**27**) of mica-schist, $3\frac{1}{2}$ in. long, locality unknown.



AW 25.

28, 29. Boulders of Sandstone, with hollows in their flat sides, from Deerness, Orkney—George Petrie, 1877.

30, 31. Boulders of Sandstone, with hollows in their flat sides, localities unknown.

32. Boulder of Whinstone, broken, $13 \times 11 \times 7$ in., with hollow in one side, locality unknown.

33. Socket-stone of Quartzite, found in Abernyte Burn, Perthshire — Robert Milne, 1883.

34. Pivot of Quartzite, from Balmaclellan, Kirkcudbright—Rev. George Murray, 1867.

35. Socket-stone, from Glencorse — Purchased 1884.

36. Small Socket-stone, $1\frac{1}{2}$ in. diameter, from Redhall, Ayton—J. Hardy, 1884.

37. Socket-stone of Quartzite, with two hollows, from Kirkcolm, Wigtownshire—J. Micking, 1884.

AW 38. Socket-stone of Quartz, from Tannadice, Forfarshire—Purchased 1887.

39–44. Socket-stones, viz.—(**39**) of sandstone, with hollow on each face, from Easter Auldtown, Cairnie ; (**40**) of quartz, with two hollows, from Forfarshire ; (**41**) of quartz, from Auldbeg, Glen Rinnes ; (**42**) of quartz, marked "'Bush' in which axle of water-wheel at Mill of Botary revolved about 50 years ago" ; (**43**) of quartzite, with hollow on each face, from Milton of Recletich, Glen Rinnes ; (**44**) of quartzite, from New Mill, Keith—*Linn Collection.*

45, 46. Socket-stones, viz.—(**45**) of granite, from Kirkcolm, Wigtownshire ; (**46**) of quartzite, from Kidsdale—Sir Herbert Eustace Maxwell, 1889.

47, 48. Socket-stones, viz.—(**47**) from Orkney ; (**48**) from Brabister, Deerness—Purchased 1888.

49. Socket-stone of Quartzose Sandstone, from Tannadice, Forfarshire—Purchased 1889.

50. Socket-stone of Schistous Stone, found at Broch of Clumlie, Shetland—Gilbert Goudie, for Rhind Excavation Fund, 1891.

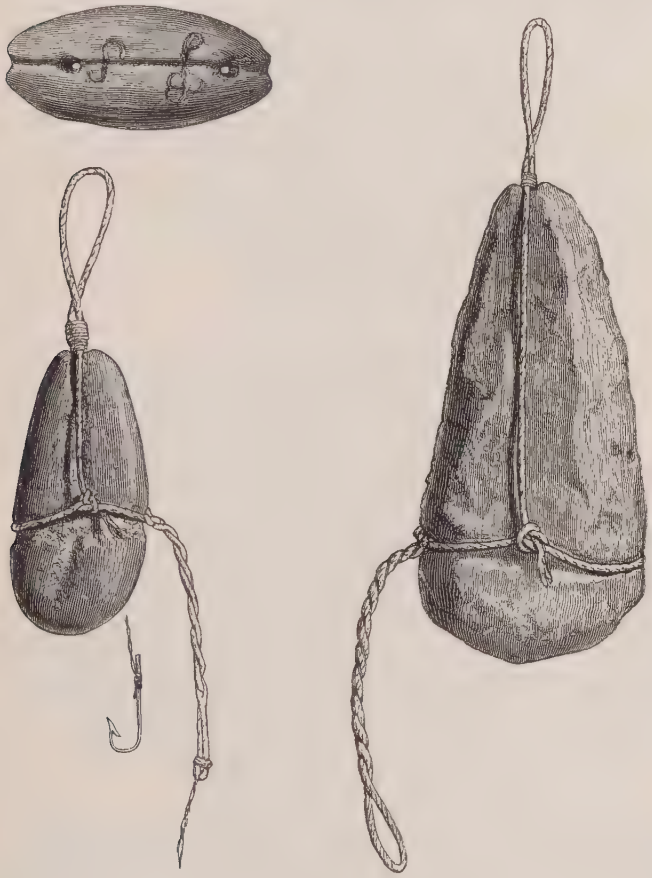
51–54. Socket-stones of Quartzite, from Muckairn, Taynuilt, Argyllshire—Dr Allan Macnaughton, 1891.

SINKSTONES.

In Floor Case on Ground Floor, East End of South Side.

AX 1-50. Sinkstones, viz.—(**1**) of steatite, $7\frac{1}{2} \times 3$ in., conical-shaped, with three perforations, found on the Muckle Flugga, Unst, Shetland—Thomas Stevenson, 1861 ; (**2**) of mica-schist, 6×6 in., with perforation near the apex, from Walls, Shetland—Rev. James Russell, 1872 ; (**3**) of red sandstone, $5\frac{1}{2} \times 3\frac{1}{4}$ in., with grooved sides, from Walls, Shetland—Rev. James Russell, 1872 ; (**4–6**) from Walls, Shetland, viz.—(**4**) of sandstone, oblong, grooved round thick end ; (**5, 6**) of schist, oblong, each with perforation—Rev. Archibald Prentice, 1875 ; (**7**) of sandstone, with perforation at each end, and dated 1671, found under the pier at Leith—William Grant, 1872 ; (**8**) of red sandstone, circular, grooved, from Orphir, Orkney—Col. David Balfour, 1860 ; (**9**) of sandstone, 7×4 in., oblong, grooved, from Knowe of Saverough, Orkney—James Farrar, 1867 ; (**10**) of sandstone, $5\frac{1}{2}$ in. long, oblong, grooved, from Keiss, Caithness—Samuel Laing, 1867 ; (**11–22**) of sandstone and greenstone, perforated, used by salmon fishers on the Tweed—David Milne Home, 1875 ; (**23–28**) of sandstone and steatite, two with fish-hooks still attached, from Walls, Shetland—Dr Arthur Mitchell, 1877 ; (**29**) of granite, 3×2 in., with longitudinal and transverse grooves, from Hill of Nisvore, near Miabhaig, Lewis—James Macrae, 1879 ; (**30**) of quartz, oblong oval, dredged up in Kirkwall Bay, Orkney—George Petrie, 1877 ; (**31**) of greenstone, with groove round the middle, from Borness, Borgue, Kircudbrightshire—James Marr, 1882 ; (**32**) a naturally perforated pebble of flint, formerly used in Shetland—Dr Arthur Mitchell, 1865 ; (**33–36**) of greenstone, perforated, from Fair Isle, Shetland—John Bruce and Dr J. A. Smith, 1882 ; (**37**) of greenstone, $13\frac{1}{2} \times 10\frac{1}{2}$ in., as now in use at West Voe, Sumburgh, Fair Isle—John Bruce, 1882 ; (**38–40**) large, as used at Sandsair, Shetland—George Bruce, 1882 ; (**41, 42**) casts from Aberdeenshire, viz.—(**41**) oblong, grooved longitudinally and transversely, from Murtle ; (**42**) flat, circular, grooved longitudinally and transversely, from Deeside—John Rae, 1884 ; (**43**) of mica-schist, $5\frac{1}{2} \times 4\frac{1}{4}$ in., perforated, from Shetland—*Lerwick Collection ;* (**44**) of greenstone,

AX $6\frac{3}{4} \times 3\frac{1}{2}$ in., with groove round the middle and round one end, from Shetland—Purchased 1887 ; (**45**) of sandstone, with perforation through the top, from the Tay near Newburgh—Purchased 1887 ; (**46**) of steatite, with perforation through the top, from Walls, Shetland—Purchased



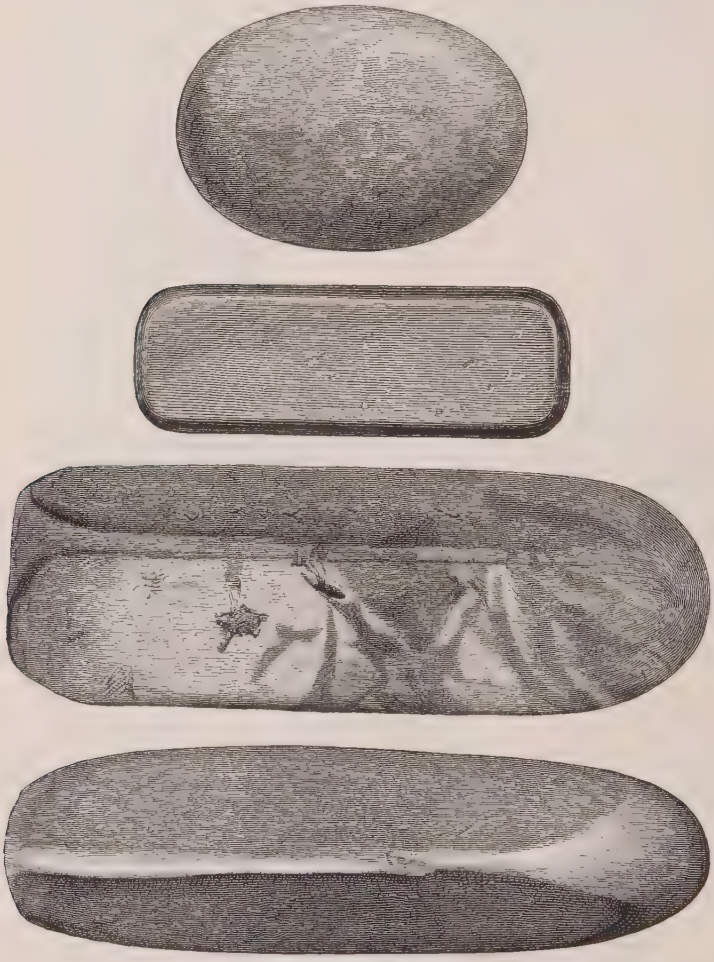
AX 23, 24 and 25.

1888 ; (**47**) of sandstone, with perforation through the top, from Carleton, Wigtownshire—Sir Herbert Eustace Maxwell, 1889 ; (**48**) of sandstone, with deep groove round its greater circumference, from St Peter's, Stronsay, Orkney—Purchased 1888 ; (**50**) of gritty sandstone, with four grooves, from Arran—W. Ivison Macadam, 1892.

SMOOTHING AND IRONING STONES.

In Floor Case, East End, South Side of Ground Floor.

AY 1-18. Smoothing-Stones, viz.—(**1**) of shale, quadrangular, $7 \times 2\frac{1}{4} \times \frac{5}{8}$ in., from Auchtermuchty, Fifeshire ; (**2**) oval-shaped water-worn pebble of granite,



AY 2, 1, 5 and 7.

$5\frac{3}{4} \times 4 \times 2\frac{1}{2}$ in., used within the last ten years in Orkney for smoothing or ironing clothes — Dr Arthur Mitchell, 1877; (**3**) weaver's rubbing stone of basalt, $7\frac{1}{2} \times 2\frac{3}{4} \times 1$ in., used in Strathmiglo, Fifeshire, in 1871—

AY James Marr, 1881; (**4**–**8**) weaver's smoothing stones, viz.—(**4**) oval-shaped, of quartz, 4 in. long, from Berwickshire; (**5**) of heavy spar, quadrangular in shape, $5\frac{1}{4}$ in. long, from Glencairn, Dumfriesshire, (**6**) of gypseous alabaster, quadrangular in shape, $5\frac{3}{4}$ in. long, from Hilderston, Torphichen, Linlithgowshire; (**7**) of black band ironstone, almost quadrangular in shape, $3\frac{1}{2}$ in. long, from Bathgate, Linlithgowshire; (**8**) adze-shaped, of shell, probably *Strombus* or *Tridacna*, 5 in. long—Prof. Duns, D.D., 1879; (**9**) smoothing stone of micaceous sandstone, $8\frac{1}{2} \times 3\frac{1}{4} \times 1\frac{3}{4}$ in.—Thomas Chapman, 1882; (**10**, **11**) smoothing stones of porphyritic stone, $4 \times 1\frac{7}{8}$ in. and $3 \times 1\frac{1}{2}$ in.—no localities; (**12**–**14**) smoothing stones from Shetland, viz.—(**12**) of greenstone, $4\frac{1}{4} \times 3\frac{1}{4}$ in.; (**13**) of basalt, irregular in shape, 6 in. in length; (**14**) of basalt, oval-shaped, $4\frac{1}{2} \times 4$ in.—*Lerwick Collection;* (**15**) smoothing stone of basalt, from Wigtownshire—Sir Herbert Eustace Maxwell, 1889; (**16**) weaver's rubbing stone of fossil coral, from Galloway—Dr W. G. Dickson, 1889; (**17**) rubbing or smoothing stone of claystone, in form of stone axe, from Drummond Hill, Kenmore, Perthshire—Purchased 1889; (**18**) rubbing or smoothing stone of claystone in the form of stone axe, from Newtonbank, Abernyte, Perthshire—*Sturrock Collection.*

GRAIN RUBBERS, KNOCKING STONES, &c.

Under Floor Cases on Ground Floor, North Side.

[The implements in this class are of various ages and purposes. The rubbing-stone or saddle-quern is a form of apparatus for grinding grain which was in use from very early times till superseded by the rotating quern. It consisted merely of a smaller stone rubbed backwards and forwards on the flattened surface of a very much larger boulder. By long-continued use many of the under stones are worn quite hollow. The "knocking-stones," with a pot-shaped cavity in their upper surfaces, were used for husking barley prior to the general introduction of barley mills. The grain to be husked was placed in the cavity of the stone, with the addition of as much water as would prevent it from flying out with the strokes of the wooden "mell" with which it was beaten, till the husk was bruised off the grain, which was thus made fit for use in the barley broth.]

BA **1**, **2**. Rubbing-Stone, $20 \times 12 \times 5$ in., with concave surface, and (**2**) upper stone found in a cave at Cullen—Earl of Seafield, 1866.

3, **4**. Rubbing-stone, $22 \times 16\frac{3}{4}$ in., concave, and (**4**) top stone, from Kennaby, Fair Isle—John Bruce, 1883.

5, **6**. Rubbing-Stones, $27 \times 21 \times 9$ in., and $23 \times 20 \times 9$ in., with deep oblong hollows worn at one end, from Barra Head, Hebrides—T. S. Muir.

7, **8**. Portions of Rubbing-Stones of Gneiss, from Harris.

9, **10**. Rubbing-Stone of Grey Granite, $17 \times 13 \times 4$ in., and (**10**) rubber of sandstone, from near Wick—A. H. Rhind, 1863.

11. Rubbing-Stone of Red Sandstone, 19×11 in., locality unknown.

12. Part of Rubbing-stone of Sandstone, 8×7 in., from Old Deer—Rev. James Peter.

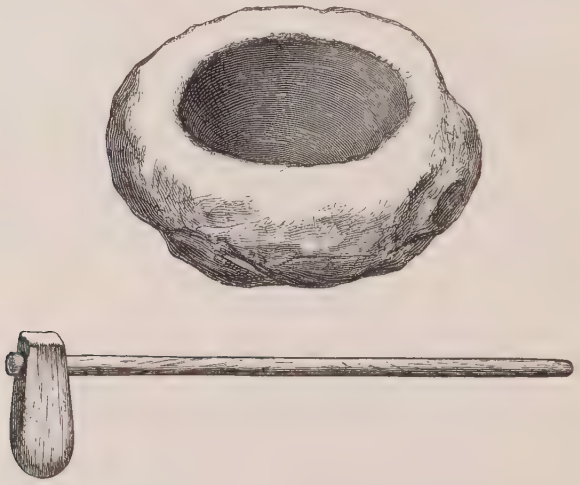
13. Upper Stone of Grain Rubber from Culbin, Elgin—Purchased 1881.

14–**20**. Upper Stones of Grain Rubbers, from West Burrafirth, Shetland—Mr Mackenzie, 1880.

21–**23**. "Knockin' Stane," and (**22**) mell, for preparing pot barley, as lately in use in Shetland; and (**23**) sample of the barley so prepared. The mell is oak, with handle of fir 33 in. long—Dr Arthur Mitchell, 1877.

BA 24. "Knockin' Stane" of Grey Granite, hollow 9 in. diameter, from Ballachulish—Sir R. Christison, Bart., 1882.

25. Mortar-like Vessel of a Vesicular Stone, from Cladh Chriosd, Harris,



BA 21 and 22.

formerly believed to be capable of effecting miraculous cures—A. A. Carmichael, 1870.

26. Rounded Flat Stone with shallow cavity 8 in. diameter, from Broch of Mousa—Sir A. Seton, 1804.

27. Small Mortar-like Vessel of Sandstone, from Glenlair, Parton, Kirkcudbrightshire—Rev. J. Milligan, 1868.

28. Rubbing Stone of Red Sandstone, 25 × 18 × 4 in., which formed the bottom of a cist, containing an urn and flint chips, at Fallaws, Forfarshire—Earl of Dalhousie, 1869.

29. Irregularly-shaped Block of Sandstone, with a basin-shaped cavity 5 in. diameter, from Fetterangus—John Keith, 1865.

30–33. Mortars, viz.—(**30**) of Sandstone, 8 × 8 in. ; (**31**) of sandstone, 7 × 8 in. ; (**32**) of sandstone, 7 × 7 in. ; (**33**) of sandstone, pillar-shaped, 6½ in. high, from Orkney—George Petrie, 1877.

34–38. Mortars of Sandstone Boulders, viz.—(**34**) 7 × 9 in. ; (**35**) 8 × 8 in. ; (**36**) 7 × 6½ in. ; (**37**) 7 × 6 in. ; (**38**) 8½ × 8½ in., localities unknown.

39. "Knockin' Stane," a sandstone boulder, imperfect, 12 × 9 in., locality unknown.

40. Rubbing Stone of Coarse Sandstone, 13 × 8½ in., hollow in flat face, locality unknown.

41. Rough Boulder of Blue Sandstone, 18 × 9 × 4½ in., cavity 6 in. diameter at one end, locality unknown.

42. Rubbing Stone of Mica-schist, 15½ × 11½ in., from Ardluie, Cabrach, Aberdeenshire—Purchased 1881.

BA 43. Pestle-like Stone of Sandstone, rounded by rubbing, 4½ in. diameter, 5 in. long, locality unknown.

44, 45. Rubbing Stones of Grit, 15 in. long, from Unst, Shetland—T. Edmondstone, for the Rhind Excavation Committee, 1870.

46–48. Mortars of Sandstone, viz.—(**46**) an oval boulder, 16 × 10½ × 6 in.; (**47**) roughly triangular-shaped, 8 × 6¼ × 4 in.; (**48**) pestle-stone rounded by use to an oblong shape, 8 in. long, from near Stennis, Orkney—Col. Balfour, 1882.

49. Rubbing Stone of Sandstone, 19½ × 10½ in., from Orkney—George Petrie, 1877.

50. Rubbing Stone of Granite, from Machermore, Glenluce—Rev. George Wilson, 1884.

51. Half of Water-worn Pebble, with three shallow hollows, from Mid Torrs, Glenluce, Wigtownshire—Rev. George Wilson, 1884.

52. "Knockin' Stane" of Freestone, 18 in. high, with hole 9½ × 11½ in., from Nolt Myre, Prestwick, Ayrshire—William Stevenson, 1886.

53. Rubbing Stone of Silicious Sandstone, from Stronsay—Purchased 1887.

54. Rubbing Stone of Sandstone, from Mid Torrs, Glenluce—Purchased 1888.

55–57. From Stronsay, Orkney—(**55**) rubbing-stone 13¾ × 6¾ in.; (**56**) portion of another; (**57**) knocking stone of freestone with hollow 11 × 9 in., and 7 in. deep—Purchased 1888.

58. Knocking-block of wood and wooden mell, from Tulloch, Abernethy, Strathspey—Rev. William Forsyth, 1890.

QUERN STONES.

Under Floor Cases on Ground Floor, North Side.

BB 1. Upper Stone of Sandstone, 15 in. in greatest diameter, the upper face cut into ribs, with projection on one side for the handle, from Fintry, Stirlingshire—Alexander Spiers, 1866.

2, 3. Upper and Lower Stones of Micaceous Schist, 17 in. diameter, with raised border round centre hole, and the handle hole in centre of raised boss on one side—Sir J. Y. Simpson, 1870.

BB 1.

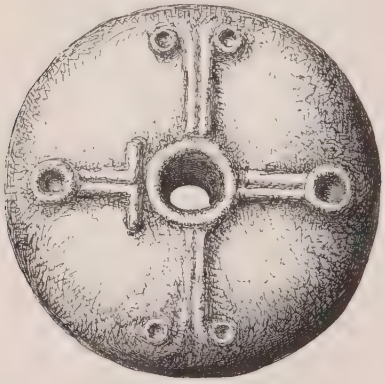
4, 5. Upper and Lower Stones of Micaceous Schist, 23 in. diameter, upper face ornamented with a cross, from Laggan, Inverness-shire, long in the family of the Macdonalds of Aberarder—Rev. Mackintosh Mackay, 1828.

6. Upper Stone of Grey Granite, 18 in. diameter, ornamented by incised equal-armed cross, found near Stranraer, Wigtownshire—The Earl of Stair, 1879.

7. Upper Stone of Red Sandstone, 14 in. diameter, with ornamental cross on upper face, found with bronze mirror, ornaments, &c. (FA 1–14), in the parish of Balmaclellan, Galloway—Rev. George Murray, 1861.

8. Upper Stone, 14 in. diameter, bound with iron, found near line of the Roman Wall to the south-west of Camelon—James Gibson, 1812.

BB 9, 10. Upper and Lower Stones of Grit, 18 in. diameter, found near Merchiston Tower, Edinburgh—James T. Douglas, 1852.



BB 7.

11. Upper Stone of Grit, 18½ in. diameter.

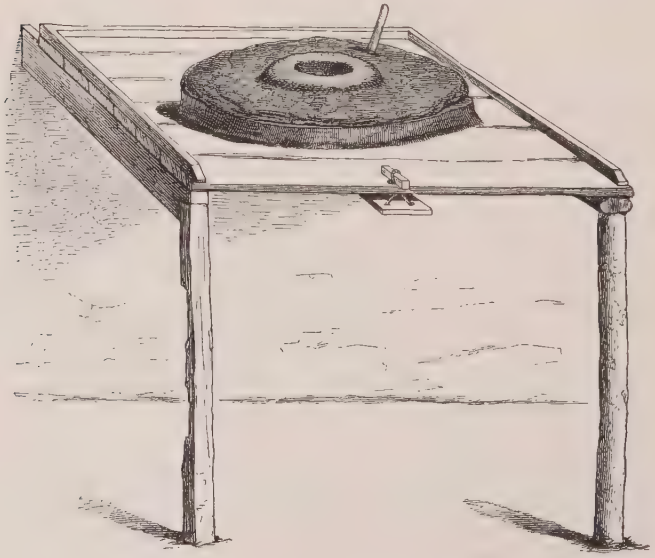
12-13. Upper and Lower Stones of Quern on wooden frame, (**14**) and samples of meal ground by it (**15, 16**). In use in 1865. From North Yell—Dr A. Mitchell, 1877.

17, 18. Upper and Lower Stones, of Mica-Schist with Garnets, 15 in. diameter.

19. Lower Stone of Pot Quern (or snuff-mill), 6½ in. inside diameter, from Valtos, in Uig, Lewis — Captain F. W. L. Thomas, 1861.

20, 21. Pot Quern, 13½ in. inside diameter, found in Warriston Close, in making Cockburn Street, Edinburgh—The Railway Directors, 1856.

22, 23. Upper and Lower Stones of Micaceous Schist, 15 in. diameter (imperfect), from Colonsay—J. M'Lugash, 1881.



BB 12–14.

24, 25. Upper and Lower Stones of Micaceous Schist, 12 in. diameter, upper stone ornamented with cross, and having the wooden "birt" for the

BB spindle still in its "eye," from Benbecula, Hebrides—A. A. Carmichael, 1870.

26, 27. Quern of Silicious Sandstone, 23 in. diameter, mounted, in working order, from Aberdeenshire—James Winton, 1873.

28. Upper Stone of Granite, 17 in. diameter, probably from the "Camp," near Pitlour House, Fifeshire—P. Skene, 1829.

29. Upper Stone, 15 in. diameter, with handle-hole in raised boss on the one side—Sir J. Y. Simpson, 1870.

30. Under Stone of Grit, 15 in. diameter, partially dressed.

31, 32. Upper Stones of Hard Blue Stone, 12 in. diameter, each with handle-hole, from Castlecary, Stirlingshire—Earl of Zetland, 1852.

33. Upper Stone of Micaceous Schist, 14½ in. diameter, 7½ in. high, with conical feed hole, from Colonsay—William Stroyan, 1881.

34, 35. Upper and Lower Stones of Quartz, 20 and 21 in. diameter, with three small sockets for handle, from Canobie, Dumfriesshire—George Maxwell, 1863.

36, 37. Upper and Lower Stones of Micaceous Schist, 18 in. diameter, from Barchastlan, Dalmally, Argyllshire—Alexander M'Nab, 1783.

38. Upper Stone of Micaceous Schist, 17 in. diameter, from Five Stanks, Uphall, Linlithgowshire—Earl of Buchan, 1781.

39. Upper Stone of Grey Sandstone, 18 in. diameter.

40. Upper Stone of Yellow Sandstone, 16 in. diameter, imperfect, from Kirkcaldy—Daniel Henry, 1870.

41. Upper Stone of Red Sandstone, 12 in. diameter, from Arniston, Midlothian—Robert Bryson, 1828.

42. Upper Stone of Sandstone, 14 × 15 × 6 in., with hole on one side, from Murray's Green, Jedburgh—John Hilson, 1869.

43. Upper Stone of Red Sandstone, 15 in. diameter, imperfect, from Dunbar—Treasure Trove, 1864.

44–45. Pot Quern, from Kirkwall, Orkney—George Petrie, 1877.

46, 47. Quern Stones, viz.—(**46**) of silurian sandstone, 16 in. diameter; (**47**) of grit, 21 in. diameter; both from Red Abbeystead, Newstead, Roxburghshire—Dr J. A. Smith, 1850 and 1876.

48. Upper Stone of Mica-schist, 20 in. diameter, from Orkney—George Petrie, 1877.

49, 50. Pot Quern, 12 in. inside diameter, with ornamental opening, from Westbank, Gladsmuir, Haddingtonshire—Purchased 1849.

51–62. Upper and Lower Stones, mostly of rude form, from Orkney—George Petrie, 1877.

63–65. Lower Stone of Grit, 14¾ in. diameter, grinding surface ribbed; (**64, 65**) portions of two others.

66, 67. Conical Upper Stones, (**66**) of whinstone, with hopper-like feed-hole in, and socket for handle on one side; (**67**) similar, but imperfect, from Creich, Fifeshire—Rev. Alexander Lawson, 1868.

68, 69. Upper and Lower Stones of Micaceous Schist, 15½ in. diameter, upper stone, with raised border round the feed-hole, the handle-hole in a raised boss on one side—Purchased 1881.

70, 71. Upper Stones, of (**70**) silurian sandstone, and (**71**) of mica-schist—Purchased 1881.

72. Lower Stone of Pot Quern, octagonal, imperfect, with ornamental opening, from Aberargie, Abernethy, Perthshire—A. Laing, LL.D., 1868.

BB 73. Upper Stone of a small Quern, for grinding snuff, 5 in. diameter, from Aberdeenshire—Rev. J. Gammack, M.A., 1884.

74, 75. Upper Stones of Querns of Granite, from Lake-dwelling site, in Barlockhart Loch, Glenluce, Wigtownshire, viz.—(**74**) conical-shaped; (**75**) imperfect—Rev. George Wilson, 1884.

76. Upper Stone of Pot Quern, found at Strathpeffer, Ross-shire—Rev. D. A. Gordon, 1884.

77. Upper Stone of Quern of Compact Sandstone, 17 in. diameter, with hollow on one side instead of handle-hole, from Clickamin, Lerwick—A. Cunningham Hay, 1883.

78, 79. Upper and Lower Stones of Quern of Mica-schist, of irregular square shape, with hole in one corner for handle and centre birt complete, from Carinish, North Uist—Purchased 1885.

80. Upper Stone of Quern of Mica-schist, 17 in. diameter, ornamented with three-armed cross, from Roy Bridge, Inverness-shire—Evan Mackintosh, 1887.

BB 80.

81. Upper Stone of Quern of Gritty Sandstone, 19 in. diameter, imperfect at one side, with wedge-shaped hollow for handle, from Linga, Shetland—Purchased 1887.

82. Lower Stone of Pot Quern of Sandstone, 12 in. diameter, from Glenkill, Lamlash, Arran—W. Ivison Macadam, 1887.

83. Lower Stone of Pot Quern of Sandstone, 13½ in. diameter, from Ayrshire—W. Stevenson.

84. Lower Stone of Pot Quern of Sandstone, 12 in. diameter, broken (locality illegible)—*Linn Collection.*

85. Upper Stone of Granite, 15½ in. diameter, from Wigtownshire—Sir Herbert Eustace Maxwell, 1889.

86, 87. Upper and Lower Stones of Mica-schist, 19½ in. diameter, from Stronsay, Orkney—Purchased 1888.

88. Upper Stone of Sandstone, of irregular form, from Fordel Park, Dalkeith—Earl of Stair, 1889.

QUERN STONES.

[From Ireland.]

Below Wall Case, North Side of Second Floor.

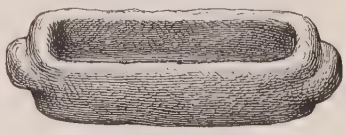
BC 1-4. Two Pot Querns, each with three feet, from Dungannon—*Bell Collection.*

5, 6. Pot Quern, with three feet—*Bell Collection.*

LARGE STONE VESSELS.

Below Window Cases, North Side of First Floor.

BD 1–22. Vessels of Stone (1–12), from Unst, viz.—(1–3) oblong, irregularly-rounded stones with hollowed cavities, from 12 × 8 × 6 in. upwards, from Clisboe; (4) of steatite, with perforation through the bottom, from Tourey; (5) oblong, tureen-shaped, with handles at ends, the cavity 12 × 7 × 3 in., from Clisboe; (6–9) portions of four square-shaped vessels of steatite; and (10–12) the covers or bottoms of steatitic vessels—Thomas Edmonstone, for the Rhind Excavation Committee, 1870; (13) oblong dish of stone, 8½ × 5 × 3 in. internally, with projecting handle at each end; from Broch at Brough, Shetland—Sir Alexander Seton, 1804; (14) oblong irregularly-shaped stone, with shallow cavity 9½ × 5½ in., from Unst, Shetland—Thomas Edmonstone; (15) fragment of a stone vessel, 1 in. thick, from Daviot, Aberdeenshire—John Walker, 1867; (16) circular vessel of sandstone, 7 in. diameter, by 3½ in. high, from Rhynie, Aberdeenshire—Purchased 1881; (17–21) stone vessels, &c., found in Orkney, viz.—(17) of sandstone, 19 × 14 in.; (18) of sandstone, 10 × 7 in.; (19) of steatite, 12½ × 9 in.; (20) part of vertebra of a whale, formed into a vessel 10½ in. diameter; (21) of soft sandstone, 8½ × 5 in.—George Petrie, 1877; (22) fragment of vessel of steatite, from Fair Isle, Shetland—John Bruce, 1882.



BD 5.

STONE WHORLS.

In Floor Case, North Side of First Floor.

[Stone Whorls, made to be fitted on to the wooden spindle so as to increase and maintain the rotary motion given to it by the twirl from the finger and thumb in spinning from the distaff, are of all periods from the first appearance of the art of spinning in the Stone Age down to recent times. They have not been found with interments of the Stone or Bronze Ages, however, in Scotland, and are usually discovered casually in the soil, and most abundantly in association with Brochs, Crannogs, or other occupied sites of Iron Age and mediæval or recent dates.]

BE 1–32. From Aberdeenshire, viz.—(1) 2¾ in. diameter, from Slains—James Dalgarno, 1875; (2) 2½ in. diameter—Col. F. Leslie, 1868; (3, 4) 1¾ and 2 in. diameter, from Kintore; (5) 1½ in. diameter, ornamented with lines, from Cloister Seat; (6) 1¼ in. diameter, ornamented with dots, and (7) 1¼ in. diameter, from Turriff—Peter Collier, 1871; (8) 2 in. diameter; (9) broken, 1¾ in. diameter, from Auchreddie, and (10) from Auchrynie, 1¼ in. diameter—John Keith, 1868; (11) with dots and lines, 1⅛ in. diameter, from Cruden—James Smith, 1866; (12) 1⅜ in. diameter, with oblique lines, from Kintore; (13) 1¼ in. diameter, from Strathdon—Alexander Anderson, 1863; (14–31) from ⅞ to 1⅝ in. diameter—Purchased 1881; (32) 1⅛ in., from Udny—C. S. Temple, 1860.

33–58. Of Stone and one of Lead, from Orkney, viz.—(33–37) from 1⅛ to 1⅝ in. diameter—Col. Balfour, 1863; (38–58) from 1⅛ to 1⅞ in. diameter—George Petrie, 1877.

59–61. From Banffshire, viz.—(59, 60) 1⅛ and 1⅜ in. diameter, from Gamrie

BE —Alexander M'Robert, 1863; (**61**) 1⅜ in. diameter, from Cullen of Buchan—James Paterson, 1867.

62, 63. From Caithness, each 1¼ in. diameter—A. H. Rhind, 1859.

64–66. From Forfarshire, 1⅞, 1¼, and 1⅛ in. diameter—J. S. Gibb, 1860.

67. From Mosspeeble, Dumfries, 1 in. diameter—A. H. Borthwick, 1867.

68. Of globular form, 1 in. diameter, with groups of incised lines, from Tayn-lochdhu, Lismore, Argyllshire.

69, 70. From Slipperfield, Peeblesshire, 1¼ and 1⅜ in. diameter—William Forbes, 1865.

71. Of Red Sandstone, 1⅜ in. diameter, elaborately ornamented, from Gourlaw, Roslin—R. Brockly, 1871.

BE 71.

72. Of dark Sandstone, 1½ in. diameter, with incised lines, from Chapelton, Ayrshire—Captain Jackson, 1874.

73. Of Claystone, 1⅜ in. diameter, from Douglas, Lanarkshire—B. N. Peach, 1878.

74–79. From Shetland, viz.—(**74–76**) of steatite, (**74**) 1⅜ in. diameter, cone-shaped, with incised lines; (**75**) ⅞ in. diameter; (**76**) 1⅛ in. diameter; (**77–79**) of steatite and sandstone, 1⅛, 1½, and 1⅛ in. diameter—Dr Arthur Mitchell, 1877.

80, 81. Of Sandstone, from Roxburghshire, viz.—(**80**) 1⅝ in. diameter, from Hume Castle; (**81**) reddish, 1⅝ in., from the Tweed, near Kelso—Rev. George Wilson, 1881.

82. From Skye, 1⅛ in. diameter—A. H. Rhind, 1859.

83. Of Claystone, 1⅝ in. diameter, from Tiree—Alexander Macgregor, 1876.

84, 85. From Haddington, 1⅜ and 1¾ in. diameter—Purchased 1876.

86–88. Of Sandstone, from ruins at Long Yester, East Lothian, 1¾, 1⅝, and 1½ in. diameter—James Robb, 1881.

89. Whorl, 1 in. diameter, with concentric circles, from Gleniron, Glenluce—Rev. George Wilson, 1871.

90–93. From Fordoun, Kincardineshire, 1½, 1⅝, 1, and 1½ in. diameter—Purchased 1881.

94–104. From Lanarkshire, viz.—(**94–102**) from 1⅛ to 2 in. diameter; (**103**) ⅝ in. diameter, from Biggar; (**104**) 1¼ in. diameter, with incised lines, from Coulter—*Sim Collection.*

105–115. Whorls, ⅞ to 1½ in. diameter, localities unknown.

116. From Turriff, Aberdeenshire—Purchased 1882.

117–119. From Ayrshire, viz.—(**117**) of shale, 1½ in. diameter; (**118**) of claystone, globular, 1¼ in. diameter, with incised lines; (**119**) half only, 1⅜ in. diameter—R. W. Cochran-Patrick, 1879.

120–122. Of Steatite, from ruins in Fair Isle, from 1 to 1⅝ in. diameter—John Bruce, 1882.

123, 124. Of Lead, 1 in. diameter, from Unst, Shetland.

125, 126. Of Stone, 1 and 1½ in. diameter, from Restennet, Forfarshire—George Sim, 1882.

127–130. Whorls, viz.—(**127**) of sandstone, 1¾ in. diameter; (**128**) of sandstone, 1 in. diameter; (**129**) of claystone, 1¼ in. diameter, imperfect—

BE all from Auchterarder, Perthshire ; (**130**) of micaceous sandstone, 1½ in. diameter, from Fortingall, Perthshire—Alexander G. Reid, 1882.

131. Of Lava, 1¼ in. diameter, from Papal Links, North Yell, Shetland—James T. Irvine, 1882.

132. Of Shale, 1½ in. diameter from Barrhill, Ayrshire—Mrs Carswell, 1883.

133. Of Sandstone, 1⅝ in. diameter, with two concentric circles, from Linlithgow—Purchased 1883.

134, 135. From Lanarkshire, viz.—(**134**) of sandstone, 1⅛ in. diameter, with concentric circles, round spindle hole on each side ; (**135**) of claystone, imperfect, 1½ in. diameter.

136, 137. Of Steatite, 1 and 1¼ in. diameter, from Shetland—*Lerwick Collection.*

138. Of Claystone, 2 in. diameter, imperfect, from Cockburnspath Tower, Berwickshire—James Hardy, 1884.

139, 140. From Kinclaven, Perthshire, viz.—(**139**) of lead, ¾ in. diameter ; (**140**) of slatestone, 1 in. diameter—Rev. John Brown, 1880.

141–143. From Kirkcolm, Wigtownshire, viz.—(**141**) of silurian sandstone, 1⅜ in. diameter, with two concentric circles on one side ; (**142**) of shale, 1 3/16 in. diameter, with three concentric circles on one side ; (**143**) of steatite, 1⅛ in. diameter—John M'Meekin, 1885.

144. Of Claystone, 1¼ in. diameter, two grooves round the circumference and oblique lines on the top, from Berwickshire—George Robertson, 1885.

145–150. From Inverness-shire, viz.—(**145**) of shale, 1⅛ in. diameter, with two concentric circles, imperfect ; (**146**) of steatite, 1 in. diameter, with seven lines round the edge ; (**147**) of steatite, 1¼ in. diameter, with circles ; (**148**) of claystone, 1⅛ in. diameter, with three groups of lines round edge ; (**149**) of claystone, 1⅝ in. diameter, with spirally divergent lines, imperfect ; (**150**) of lead, 1¼ in. diameter, plain—Purchased 1884.

151, 152. From Wigtownshire, viz.—(**151**) of claystone, 1⅝ in. diameter, from Balcarrie, Glenluce ; (**152**) of soapstone, 1⅜ in. diameter, divergent lines on one face, from Balmurrie, New Luce—Purchased 1884.

153. Of Sandstone, 1¾ in. diameter, rudely-incised lines on one side, from Oncom, North Ronaldsay, Orkney—Dr William Traill, 1884.

154–161. From the south end of Kirkmaiden, Wigtownshire, viz.—(**154**) of slatestone, 1¼ in. diameter ; (**155**) of claystone, 1⅜ in. diameter, imperfect ; (**156**) of red sandstone, 1 in. diameter ; (**157**) of soapstone, 1¼ in. diameter ; (**158**) of soapstone, 1½ in. diameter, with rudely-incised lines ; (**159**) of claystone, 1⅜ in. diameter ; (**160**) of sandstone, 1¾ in. diameter, rudely made ; (**161**) of sandstone, 1¾ in. diameter—Dr William Gemmill, 1883.

162. Of Spar, 1 in. diameter, from South Uist—Purchased 1885.

163. Of Claystone, 1½ in. diameter, from Auchterarder, Perthshire—Alexander G. Reid, 1885.

164, 165. From Saline, Dunfermline, Fifeshire, viz.—(**164**) of porphyry, 1½ in. diameter ; (**165**) of sandstone, 2½ in. diameter—Rev. William Finlay, 1886.

166. Of Claystone, 1⅜ in. diameter, from Wells Hill, Tippermuir, Perthshire—Dr Robert de Brus Trotter, 1887.

167, 168. From Orkney, viz.—(**167**) of sandstone, 1⅞ in. diameter, imperfect, with the letters S.H., from Deerness ; (**168**) of sandstone, 1¾ in. diameter, from South Ronaldsay—Purchased 1887.

169. Of Claystone, 1⅜ in. diameter, from West Kilbride, Ayrshire—Purchased 1887.

BE 170, 171. From Overhowden, Oxton, Lauder, Berwickshire, viz.—(**170**) of claystone, $1\frac{1}{8}$ in. diameter, with circle round spindle-hole on one side; (**171**) of sandstone, $1\frac{5}{8}$ in. diameter—Purchased 1888.

172, 173. Of Sandstone, from Tannadice, Forfarshire, $1\frac{3}{16}$ and $1\frac{3}{8}$ in. diameter—Purchased 1887.

174–179. Of Sandstone, viz.—(**174**) $1\frac{7}{16}$ in. diameter, from Blackburn, Livingston, Linlithgow; (**175**) $1\frac{1}{4}$ in. diameter, imperfect, from Bloom, Linlithgow; (**176**) $1\frac{9}{16}$ in. diameter, imperfect, from Norton, Ratho, Edinburghshire; (**177**) $1\frac{1}{2}$ in. diameter, imperfect, from Campmoor, Perthshire; (**178**) $1\frac{1}{4}$ in. diameter, with two concentric circles, from Saughton Hall, Edinburghshire; (**179**) $1\frac{11}{16}$ in. diameter, from Moor of Whitehouse, Aberlour, Banffshire—*Linn Collection.*

180–185. Of Claystone, from Aberdeenshire, viz.—(**180**) $1\frac{1}{4}$ in. diameter, with incised lines; (**181**) $1\frac{7}{16}$ in. diameter, with lines radiating from the spindle-hole on each face, with dots between and crossed lines on the edge; (**182**) $1\frac{5}{8}$ in. diameter, with groups of incised lines; (**183**) $1\frac{5}{8}$ in. diameter, partly ornamented with incised pattern; (**184**) $1\frac{7}{8}$ in. diameter, with lines radiating from the spindle-hole; (**185**) of sandstone, $1\frac{1}{4}$ in. diameter—*Linn Collection.*

186–208. From Wigtownshire, viz.—(**186**) of sandstone, $1\frac{1}{16}$ in. diameter, from Dromore; (**187**) of sandstone, $1\frac{1}{8}$ in. diameter, rudely ornamented with lines, from Glasserton; (**188**) of claystone, $1\frac{3}{8}$ in. diameter, with alternating straight lines and dots, from Penninghame; (**189**) of sandstone, $1\frac{7}{16}$ in. diameter, irregular in form, from Mains of Penninghame; (**190**) of claystone, $1\frac{3}{8}$ in. diameter, from Airiehassan; (**191**) of steatitic stone, $1\frac{3}{8}$ in. diameter, cone-shaped, with concentric circles; (**192**) of sandstone, $1\frac{1}{4}$ in. diameter, flat, cone-shaped, with concentric circles; (**193**) of claystone, $1\frac{3}{8}$ in. diameter, imperfect; (**194**) of sandstone, $1\frac{7}{16}$ in. diameter, with four incised lines on one face, all from Kirkmaiden; (**195**) of greenstone, $1\frac{3}{8}$ in. diameter; (**196**) of greenstone, $1\frac{1}{2}$ in. diameter; (**197**) of sandstone, $1\frac{11}{16}$ in. diameter, imperfect, with incised lines, all from Balcraig; (**198**) of claystone, $1\frac{5}{16}$ in. diameter, with concentric circles on each face, from Drumscallan; (**199**) of sandstone, $1\frac{3}{8}$ in. diameter, slightly imperfect, with lines radiating from spindle-hole, (**200**) of red sandstone, $1\frac{9}{16}$ in. diameter, with straight lines radiating from spindle-hole, alternating with dots, (**201**) of claystone, $1\frac{3}{16}$ in. diameter, slightly imperfect, (**202**) of sandstone, $1\frac{9}{16}$ in. diameter, rude, without localities; (**203**) of claystone, $1\frac{5}{8}$ in. diameter, rudely formed, from St Ninian's Cave, Glasserton; (**204**) of clayslate, $1\frac{3}{8}$ in. diameter, with concentric circles on each face, (**205**) of steatitic stone, $1\frac{5}{16}$ in. diameter, with circle round spindle-hole on one side, (**206**) of sandstone, $1\frac{1}{8}$ in. diameter, (**207**) of claystone, $1\frac{3}{8}$ in. diameter, without localities; (**208**) of sandstone, $1\frac{3}{4}$ in. diameter, from Kirkinner—Sir Herbert Eustace Maxwell, 1889.

209. Of Greenstone, $1\frac{5}{8}$ in. diameter, from Old Meldrum, Aberdeenshire—James Ellis, 1888.

210, 211. Of Sandstone, from Walls, Shetland, viz.—(**210**) $1\frac{5}{8}$ in. diameter; (**211**) $1\frac{7}{8}$ in. diameter, imperfect—Purchased 1887.

212. Disc of Sandstone, $1\frac{11}{16}$ in. diameter, with two small holes through the centre, from Walls, Shetland—Purchased 1887.

213–218. Of Sandstone, one of wood, two ornamented with dots, from various parts of Orkney—Purchased 1888.

219. Of Sandstone, $1\frac{1}{2}$ in. diameter, with initials B.L., from Auchterarder, Perthshire—Alexander G. Reid, 1888.

BE 220, 221. Of Sandstone, $1\frac{5}{16}$ and 1 in. diameter, both from Aberdeenshire—Purchased 1889.

222. Of Sandstone, $1\frac{5}{8}$ in. diameter, with incised lines radiating from the spindle-hole on one side, from Bents, Minnigaff, Kirkcudbrightshire—Purchased 1888.

223–228. From Mouswald, Dumfriesshire, viz.—(**223**) of claystone, $1\frac{3}{8}$ in. diameter, imperfect; (**224**) of sandstone, $1\frac{3}{16}$ in. diameter; (**225**) of sandstone, $1\frac{5}{8}$ in. diameter; (**226**) of sandstone, $1\frac{9}{16}$ in. diameter, with lines radiating from the spindle-hole on each side; (**227**) of sandstone, $1\frac{13}{16}$ in. diameter; (**228**) of sandstone, $2\frac{9}{16}$ in. diameter — Charles Carruthers, 1889.

229–232. From Tannadice, Forfarshire, viz.—(**229**) of micaceous sandstone, $1\frac{11}{16}$ in. diameter; (**230**) of gritty sandstone, $1\frac{3}{8}$ in. diameter; (**231**) of claystone, $1\frac{1}{4}$ in. diameter, imperfect; (**232**) of micaceous stone, $1\frac{1}{8}$ in. diameter—Purchased 1889.

233. Of Micaceous Sandstone, $1\frac{1}{8}$ in. diameter, with lines radiating from the spindle-hole on each face, from Fordoun, Kincardineshire — Purchased 1889.

234, 235. From Berwickshire, viz.—(**234**) of claystone, $1\frac{7}{16}$ in. diameter, with concentric circles round spindle-hole on one face; (**235**) of red sandstone, $1\frac{3}{4}$ in. diameter—Purchased 1889.

236. Of Claystone, $1\frac{1}{16}$ in. diameter, with combinations of incised lines on edge, found at Dores, Inverness-shire—Rev. John E. Fraser, 1889.

237. Of Burnt Clay, $1\frac{1}{4}$ in. diameter, rudely made, of irregular form, from Glenree Farm, Arran—James Todd, 1890.

238–241. From the Braes of Glenlivet, Banffshire, viz.—(**238**) of micaceous sandstone, $1\frac{1}{4}$ in. diameter, with lines radiating from the spindle-hole, each alternating with three dots in the form of a triangle; (**239**) of micaceous stone, $1\frac{3}{4}$ in. diameter; (**240**) of claystone, $1\frac{15}{16}$ in. diameter; (**241**) of claystone, $1\frac{13}{16}$ in. diameter, with six incised lines radiating from the spindle-hole on one side—Purchased, 1890.

242. Whorl of Claystone, $1\frac{5}{8}$ in. diameter, from near St Andrews, Fifeshire—S. G. Percival, 1892.

243. Whorl of Steatitic Stone, $1\frac{1}{2}$ in. diameter, from Dores, Inverness-shire—Rev. J. E. Fraser, 1892.

STONE WHORLS.

[Other European Countries.]

In Floor Case, North Side of Second Floor.

BF 1–43. Whorls, viz.—(**1–31**) of various sizes, from $\frac{7}{8}$ to 2 in. diameter, chiefly from Ireland—*Bell Collection;* (**32–36**) of lead (some ornamented)—*Ruthven Collection*, 1884; (**37–43**) from Ireland, viz.—(**37**) of red baked clay, imperfect, 1 in. diameter, painted; (**38**) of chalk, $1\frac{1}{8}$ in. diameter, painted; (**39**) of slatestone, $1\frac{7}{16}$ in. diameter; (**40**) of sandstone, $1\frac{5}{16}$ in. diameter, with three incised concentric lines; (**41**) of pumice-stone, $1\frac{5}{16}$ in. diameter; (**42**) of fine sandstone, square-shaped, $1\frac{3}{8}$ in. each way; (**43**) of gritty sandstone, $1\frac{7}{8}$ in. diameter—Sir Herbert Eustace Maxwell, 1889.

MISCELLANEOUS STONE IMPLEMENTS, &c.

In Window Cases, South Side of First Floor.

BG **1.** Cylindrical Implement of Micaceous Sandstone, 8½ in. long, one end perforated, from North Berwick, 1826.

2. Four-sided Implement of Sandstone, 9¼ in. long, one end perforated, from Dunbar—Treasure Trove, 1864.

3. Oval, OblongImplement of Sandstone, 8 in. long, one end perforated, from North Berwick—Dr Daniel Wilson, 1863.

4. Implement of Mica-Schist, 8½ in. long, perforated, from Fetterangus, Aberdeenshire—1865.

5. Oblong, Flattish Pebble of Sandstone, 4½ in. long, one end perforated, from Fyvie, Aberdeenshire—A. Jervise, 1863.

6. Pounding Stone, 7½ × 2½ in., with abraded surface and wasted ends, from East Watten, Caithness, used for pounding salt—Dr A. Mitchell, 1877.

7, 8. Implements from Shetland.

9, 10. Portions of Discs of Micaceous Stone marked on each face with incised lines, (**9**) from Walls, Shetland—Rev. J. Prentice, 1875; (**10**) from Orkney—George Petrie, 1877.

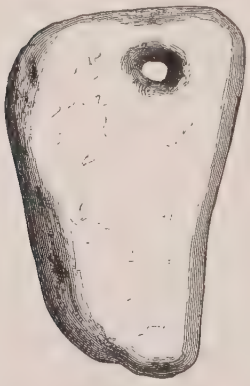
11. Wheel-like Stone, with square hole in centre, from Orphir, Orkney—Col. Balfour, 1860.

12. Circular, Flattish Stone, 2½ in. diameter, outer edge worn flat, from St Kilda—T. S. Muir, 1856.

13. Disc of Quartzose Sandstone, 3¼ in. diam., edge worn flat, from Kintore.

14. Oval, Water-worn Pebble of Quartzite, slightly abraded, 3¼ × 2¼ × 1 in., said to have been used as charm-stone, from Fettermuir—Purchased 1881.

15. Hollowed and Polished Stone, from Broxmouth Ward, Dunbar—John Jeffrey, 1872.



BG 19.

16. Pebble of Sandstone, 5 in. long, with groove round the middle, from Kintore.

17. Cast of similar Stone, from Fyvie, Aberdeenshire—John Rae, 1880.

18. Muller of Quartzy Sandstone, 4 × 3 in., from Aldbar, Forfarshire—J. S. Gibb, 1868.

19. Pierced Stone for tying between a cow's horns, and by its motion preventing her from running away, from Shetland—Dr Arthur Mitchell, 1877.

20. Stone, with incised patterns, and the date 1683, from Arran—Dr John Sibbald, 1880.

21, 22. Loom Weights of Clay, from Montblairy, Banffshire—Alexander Morrison, 1864.

23, 24. Loom Weights, from Ravensby, Barry, Forfarshire—James Walker, 1870.

25, 26. Rude Implements from Shetland, one 11 in. and the other 6¾ in. long—Dr Arthur Mitchell, 1877.

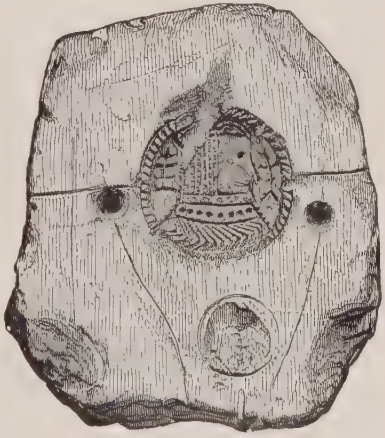
BG 27. Naturally-shaped Pestle-like Stone, 2×1 in., from a stone circle in Skye.

28–30. Flint "Strike-Lights," made for sale, bought in a shop at Thornhill, Dumfriesshire—Dr Arthur Mitchell, 1876.

31. Block of Sandstone, $5\frac{1}{4} \times 4\frac{1}{4} \times 2\frac{1}{2}$ in., with square cavity, from Orphir, Orkney — George Petrie, 1877.

BG 23, 24.

32–42. Stone Moulds, viz.—(**32**) half only, for making small shot; (**33**) half, for leaden badge, found near Jedburgh—Dr J. A. Smith, 1863; (**34**) for buckles, from Dalkeith—John Gray, 1853; (**35**) for buckles, from Mey, Canisby, Caithness—C. W. Peach, 1871; (**36**) cast for buttons, from Elginshire; (**37**) cast for tokens, from Timpandeau, Jedburgh; (**38**) button-mould of sandstone, from Evie, Orkney—Dr Arthur Mitchell, 1877; (**39**) of clayslate, $2\frac{1}{2} \times 1\frac{3}{4}$ in., for casting four buttons of different patterns, from Inchberry, Orton, Speyside—James Cruikshank, 1877; (**40**) portion of large bullet-mould, from Fordoun—Rev. J. Gammack, 1878; (**41**) for casting ornaments, locality unknown — Purchased 1881; (**42**) of reddish sandstone, from Orkney—George Petrie, 1877.



BG 33.

43. Implement, $7\frac{1}{4} \times 2\frac{3}{8}$ in., perforated at one end, from Camptown, East Lothian—R. S. Skirving, 1882

44. Implement of Baked Clay, from near the fort of Balfour, Kirkinner, Wigtownshire—R. Chalmers, 1882.

45. Oblong Implement of Mica-Schist, imperfect, perforated at one end, from Culbin Sands —Purchased 1882.

46. Limpet-Hammer from Castail Gillean, Oronsay, Colonsay—S. Grieve, 1881.

47 Fragments of Stone Implement, probably a mould from Orkney—George Petrie, 1877.

48. Stone Cover of Meal Barrel from Unst, Shetland—Dr Arthur Mitchell, 1881.

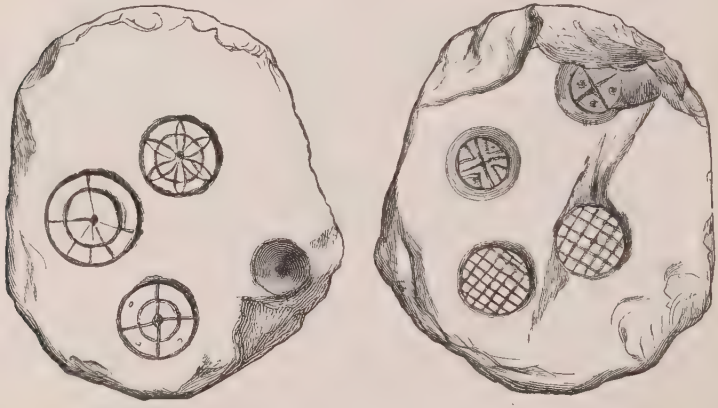
49. Part of Button-Mould, from Shetland—*Lerwick Collection*.

50–59. Circular Discs of Stone, from $2\frac{1}{2}$ to $5\frac{1}{2}$ in. diameter, probably from brochs in Orkney—George Petrie.

60–74. Implements, from Berwickshire, viz —(**60–70**) stones for colouring

BG flagstone floors and doorsteps; (**71–74**) strike-lights of flint, Lydian stone, and agate, from Teviotdale, near Hawick—B. N. Peach, 1879.

75, 76. Oblong Pebbles, 2½ and 3 in. long; (**75**) from New Machar; (**76**) from Strathdon, Aberdeenshire—John Rae, 1884.



BG 38.

77. Small Mortar of Steatitic Stone, from Ardrite, Duffus—Purchased 1884.

78. Stone Implement, with hammer marks, grooved across the edges, from Clachan Guip, North Uist—Purchased 1884.

79. Half of Stone Mould for casting Rifle-Bullets, from Cabrach—Rev. Dr A. Gordon, 1884.

80. Oblong Implement of Claystone, the ends rounded off, with perforation through the middle surrounded by two concentric rings, found near Stenabreck, N. Ronaldsay—Dr. W. Traill, 1884.

81. Curing Stone, subsequently used for pounding salt, from Ballintuim, Strath Tummel—Dr R. W. Irvine, 1884.

82. Mould of Steatite, 6¼ × 3¼ in., from Church of St Paul's, Cunningsburgh, Shetland—Purchased 1887.

83. Cast of Rude Stone Lamp, from Elgin—Dr A. Mitchell, 1887.

84. Sun-dial of Marble, 2⅞ in. diameter, from Assynt, Sutherlandshire—Purchased 1887.

85. Squarish Block of Sandstone, one end imperfect, with groove 3¼ in. long, ⅝ in. wide, ¼ in. deep, from Orkney—George Petrie, 1877.

86. Small Stone Weight, with two iron rings attached, from Aberlour, Banffshire—*Linn Collection.*

87. Disc of Actinolite Schist, 6 in. diameter, from Easter Achmore, Glen Rinnes—*Ibid.*

88. Wedge-shaped Implement of Sandstone, 7⅛ × 2 7/16 in., from Glasserton, Wigtownshire—Sir Herbert Eustace Maxwell, 1889.

89, 90. Stones, each with perforation at one end, viz.—(**89**) from Blairbuy; (**90**) from Carleton, Wigtownshire—*Ibid.*

91–102. Implements, from Wigtownshire, viz.—(**91**) disc of slaty sandstone, 11 in. diameter, perforation ⅞ in. diameter through centre; (**92**) sandstone

BG pebble, with rudely-picked hollow on one side, from Kidsdale Glasserton ; (**93**, **94**) similar stone, from Baleraig and Mochrum ; (**95**) similar stone, locality unknown ; (**96**) conical-shaped smoothed stone, from Carleton ; (**97**) stone, $6\frac{3}{4} \times 5\frac{3}{4}$ in., with cup-shaped depression $2\frac{3}{4} \times 2\frac{1}{4}$ in. ; (**98**) small ball of sandstone ; (**99**) disc of greenstone, 5 in. diameter, smoothed on one side, from Grennan ; (**100**) small stone weight with iron ring attached ; (**101**, **102**) circular discs of claystone and greenstone—*Ibid.*

103 107. Complete Mould for casting Sleeve-Links, and portions of four other moulds—*Ibid.*

108. Implement of Basalt, resembling a spear-head, $7\frac{1}{8}$ in. long, locality unknown—Purchased 1888.

109–113. Crusie Moulds, viz.—(**109–111**) from Orkney—Purchased 1887, 1888 ; (**112**) from Dunrossness, Shetland—Purchased 1888 ; (**113**) from North Uist—Purchased 1884.

BG 112.

114. Small Block of Sandstone, with picked hollow on one side, from Orkney —Purchased 1888.

115. Axe-like Implement of Claystone, polished at cutting end, $6\frac{1}{8} \times 1\frac{5}{8}$ in., from Tingwall, Rendall, Orkney—Purchased 1888.

116, 117. Stone Weights from Dalnaw, Minnigaff, Kirkcudbright—Purchased 1888.

118. Stone Ball, from Aberdeenshire—Purchased 1889.

119. Cast of Stone Mould for small circular objects, showing a human head in relief and letters I.W., from Crawfurd John, Lanarkshire—Lady Colebrooke, 1888.

BG 120. Disc of Black Glass, 2¾ in. diameter, from Drummore, Wigtownshire—Dr William Gemmill, 1883.

121. Small Block of Sandstone, with roughly-picked hollow 3 × 1 in. on one side, from Waterside, Forres, Elginshire—Purchased 1889.

122. Ball of Sandstone, 2⅝ in. diameter, from Birkhill, Muckart—A. S. Douglas, 1889.

123. Ball of Sandstone, 1½ in. diameter, with six perforations meeting in the centre, from Newburgh—Alexander Laing, 1890.

124. Pebble of Quartzite, 2 in. diameter, found in Dilly Moss—*Sturrock Collection.*

125. Piece of Steatite roughly carved and perforated—*Lerwick Collection.*

COLLECTIONS FROM SPECIAL LOCALITIES.

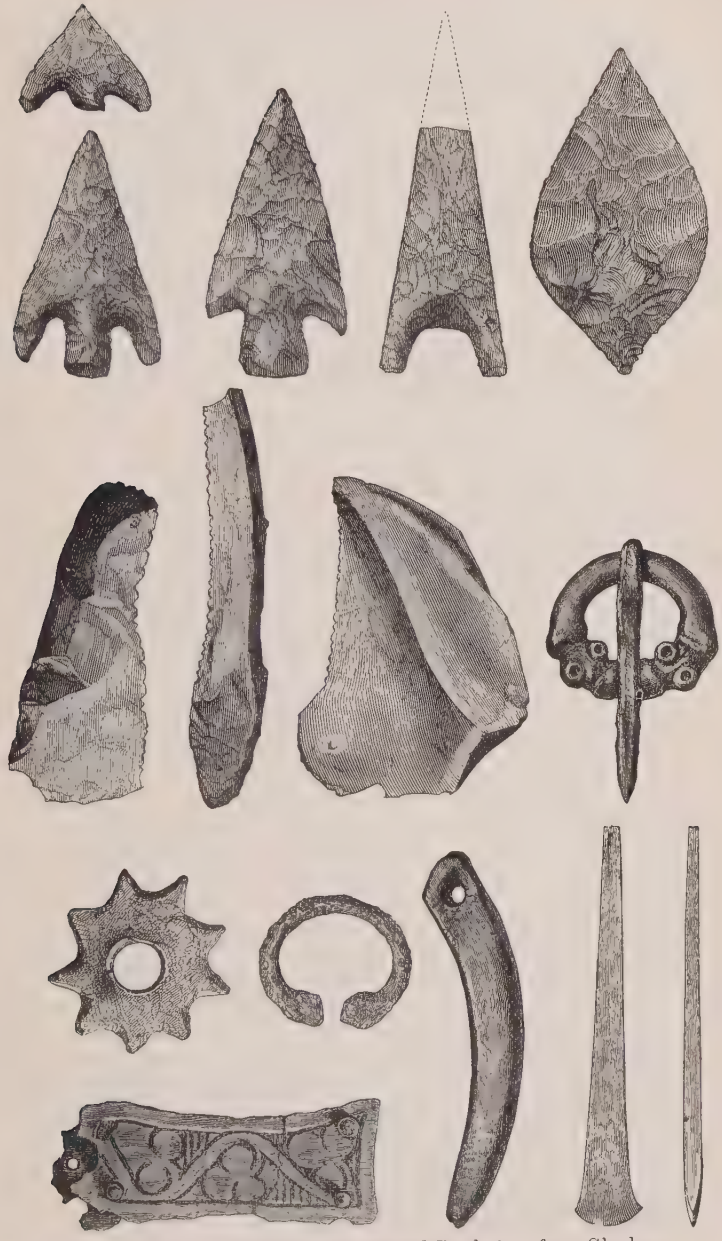
GLENLUCE SANDS, WIGTOWNSHIRE.

In Desk and Wall Cases, South Side of West End of First Floor.

[These extensive collections (the largest consisting of about 30,000 specimens) have been made under the direction of the Society of Antiquaries of Scotland, with the view of illustrating the general character of the archæological deposits on certain well-defined areas, principally of a sandy nature. These sandy areas have been selected because the blowing away of the sand exposes the articles which have been dropped successively upon the old land surface in the course of ages, and by a systematic search extending over a lengthened period (as in these cases of from seven to ten years) a representative series of them may be recovered. As arranged in an approximately chronological series for each locality, they consist chiefly of prehistoric implements of stone and bronze, and small articles of personal decoration, such as beads and bracelets of jet or glass, fibulæ of Iron-Age character, brooches and rings of mediæval types, and needles, pins, buckles, clasps, &c., of more recent times. The close correspondence in general character of the two collections, from Glenluce Sands in the south-west and from the Culbin Sands in the north-east of Scotland, is very remarkable, but the differences in detail are even more striking. The Glenluce Collection, the first of the series, was obtained chiefly through the Rev. George Wilson, of the Free Church, Glenluce.]

BH 1-8770. Viz.—(**1-91**) arrow-heads, with barbs and stem, some imperfect; (**92-122**) arrow-heads of triangular, lop-sided, and hollow-based forms; (**123-419**) arrow-heads of leaf and lozenge shapes, many imperfect; (**420-443**) worked flakes resembling unfinished arrow-heads; (**444-541**) single and double edged saws, some finely serrated; (**542-926**) knives, single and double edged, many showing fine working on the sides; (**927-1074**) small, finely-worked flakes of regular form, and other worked implements of small size; (**1075-1082**) portions of knives which seem to have been burned, and may have accompanied cremated interments; (**1083-1212**) borers and borer-like implements, mostly showing signs of use; (**1213-1250**) oval, pointed, and other worked implements; (**1251-1319**) small chips and flakes showing working on the edges; (**1320-1439**) cores or nuclei from which flakes have been struck off for implements; (**1440-1519**) worked flakes with a hollow scraping edge; (**1520-4743**) scrapers of various forms, mostly with rounded scraping edge, and a number of strike-lights; (**4744-4770**) gun and pistol flints; (**4771-4778**) flakes showing the bulb of percussion on the under side; (**4779-7923**) flakes

BH



Arrow-heads, Saws, Brooches, Star-shaped Bead, &c., from Glenluce.

BH and chips of flint struck off in the manufacture of implements ; (**7924–8008**) fragments of polished stone axes, and axes nearly perfect but much sand worn ; (**8009–8137**) chips and flakes of pitchstone ; (**8138–8157**) fragments of hematite ; (**8158–8207**) thirty-three whorls of stone (some ornamented) and seventeen fragments of others ; (**8208–8429**) fragments of armlets of jet, beads, pendants, portions of rings, unworked fragments, and a finger-ring of stone and halves of two others ; (**8430–8463**) beads, viz.—six of amber, four star-shaped of green paste, two of brown and two of black glass, one of dark-blue and four of light-blue glass, and a fragment of another, one triangular-shaped of yellow and blue paste, one of green glass, imperfect, seven of yellow vitreous paste, one of jet, fragments of three of steatite, and one of shale ; (**8464, 8465**) portion of armlet of white paste and portion of another of green glass ; (**8466–8498**) seven whorl-like objects and twenty-six miscellaneous articles of lead ; (**8499–8510**) bronze implements, chisel and portion of another, small knife-dagger, fragment of a flanged axe, portions of four other implements, and four "run" portions of metal ; (**8511–8559**) five fish-hooks of bronze, three linked portions of wire, seventeen pins and fragments of early type, and seven common pins, seven needles, some imperfect, three pins for brooches, plain ring-brooch with pin, two halves of two inscribed brooches, bow-shaped fibula with pin, and bow portion of another fibula, a circular bronze button or mounting, small handle-like object of iron coated with bronze ; (**8560–8580**) two small penannular brooches and a brooch pin, small double-globular pendant, four finger-rings and portion of another, spring portions of two fibulæ, two portions of bronze mountings, two bronze keys, five portions of bronze inlaid with niello and silver wire, portion of bronze implement ; (**8581–8612**) miscellaneous objects of bronze or brass, some of modern date ; (**8613**) a quantity of bronze clippings, drops, run portions, &c. ; (**8614–8683**) portions of urns of Bronze-Age types, some ornamented ; (**8684–8708**) fragments of mediæval pottery, glazed and unglazed ; (**8709–8712**) four tobacco-pipe heads of early form ; (**8713–8715**) two small whetstones and portion of another ; (**8716–8719**) hammer-stone of quartzite and three other stone implements ; (**8720–8732**) seven whetstones, five perforated pebbles, and oval-shaped water-worn pebble with circular depression on each face ; (**8733**) portion of large ring of clay ; (**8734**) portion of small quadrangular bell of bronze ; (**8735–8740**) iron implements, viz.—arrow-head, knife, key, tang of dagger-blade, ring, and small spring clip-shears ; (**8741–8770**) three knives, seventeen scrapers, and ten chips of flint.

[See also Sections AF, AH, AK, AL, AM for specimens not entered in this section.]

CULBIN SANDS, ELGINSHIRE.

In Table, Wall, and Desk Cases, North Side of West End of First Floor.

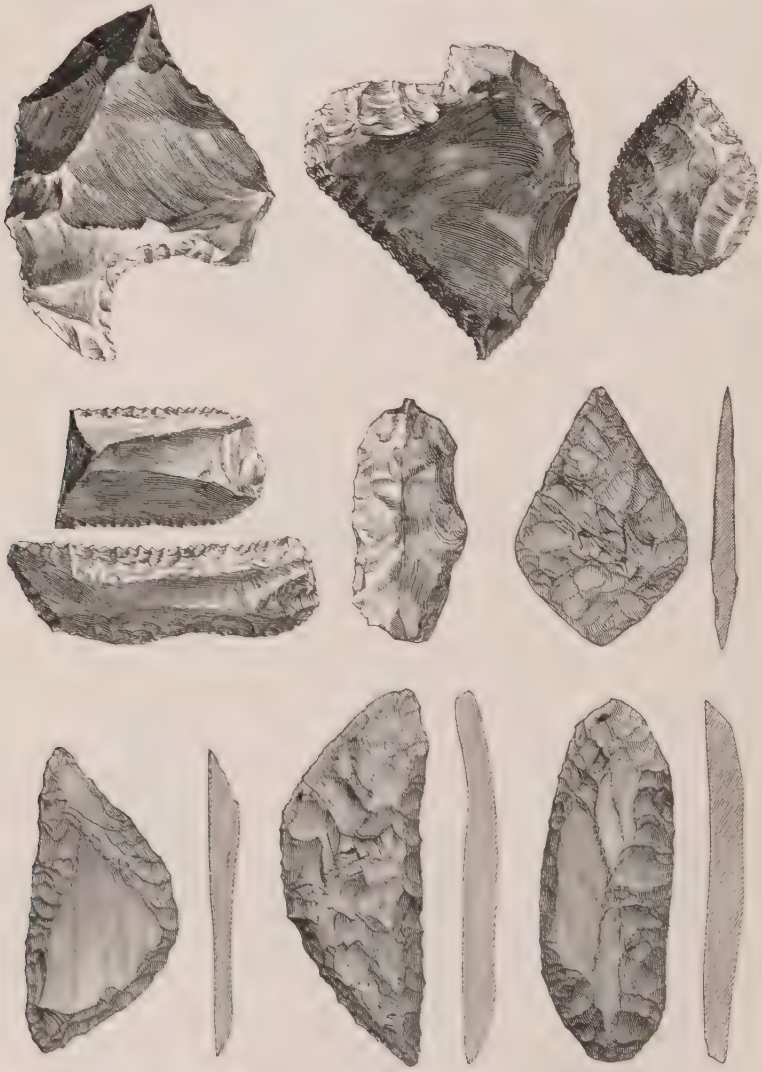
BI 1–29,422. Viz.—(**1–632**) arrow-heads, with barbs and stem, some imperfect, and two unfinished arrow-heads showing the manner of manufacture ; (**633–845**) arrow-heads of leaf and lozenge shapes, some imperfect ; (**846–927**) arrow-heads of triangular, lop-sided, and hollow-based forms ; (**928–1051**) fragments of arrow-heads of various forms ; (**1052–1151**) worked implements resembling rude or unfinished arrow-heads ; (**1152–1904**) single and double edged knives, and other finely-worked implements ; (**1905–1929**) portion of horseshoe-shaped knife (calcined), similar in form to AA 8, portions of nine other implements, which may have accompanied interments, and have been burned in a fire, fifteen other finely-worked implements and fragment, one a portion of a fabricator ; (**1930–2057**)

BI borers of different sizes and forms ; (**2058–2094**) single and double edged saws, some finely serrated ; (**2095–2142**) triangular-shaped and pointed implements ; (**2143–2171**) worked implements with a concave scraping or

Arrow and Spear Heads from Culbin Sands.

cutting edge ; (**2172–2527**) small flakes of flint more or less finely-worked on one or both edges ; (**2528–3484**) small pointed implements of flint,

BI showing considerable signs of wear at the points ; (**3485–3575**) gun and pistol flints ; (**3576–3588**) small cores of flint, some of which have been



Arrow-heads, Knives, Saws, and Hollow Scraper from Culbin Sands.

burned ; (**3589 3738**) large nodules and pieces of flint, some of which may have been used for strike-lights, and some which may have been

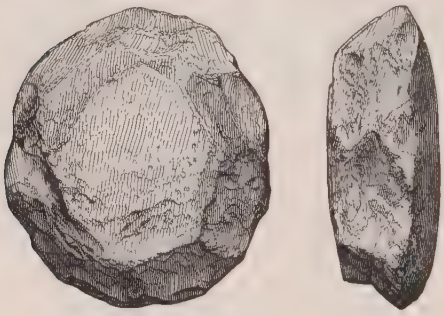
BI cores ; (3739–10,039) scrapers of various forms, mostly with rounded or straight scraping edges, some finely chipped, and a number of strike-lights, some of which show considerable signs of wear on the edges ; (10,040–

Miscellaneous Objects from Culbin Sands.

24,848) chips and flakes of flint and chert, which have been struck off in the manufacture of implements, and some of which may have been used as cutting instruments ; (24,849–24,858) stone axes and fragments, from $3\frac{1}{2}$

BI

to 5 in. in length, all much worn by the action of the sand ; (**24,859–24,980**) hammer-stones of quartzite, abraded at one or both ends by use ; (**24,981–25,048**) discoidal implements of quartzite, from 1½ to 5 in. diameter; (**25,049–25,059**) saddle-querns of quartzite and granite, from 15 to 23 in. long; (**25,060–25,076**) upper or rubbing stones of saddle-querns of quartzite and granite ; (**25,077–25,108**) stone implements with indented hollows, whet-stones, anvil-stones, sinker, &c.; (**25,109–25,149**) whorls, mostly formed from portions of mediæval earthenware vessels, a few of sandstone, and some fragments ; (**25,150–25,153**) portion of a spear-head and the points of three lance-heads of bronze ; (**25,154–25,165**) small bronze tweezers, two "Late-Celtic" bronze mountings, the bow portions of three bow-shaped fibula, penannular brooch with pin of early Iron-Age type, spiral finger-ring of bronze of four turns, head portion of an enamelled pin of "Late-Celtic" type and the head of another similar pin of smaller size, and two bronze mountings ; (**25,166–25,181**) large pin, 4¼ in. long, with movable ring-head, and fifteen other pins of early forms ; (**25,182–25,185**) mediæval ring-brooch of bronze with globular mountings imperfect, and three small bronze rings ; (**25,186–25,239**) mediæval brooches, one of silver is inscribed "✠ IESVS NA," two are of pewter, and the remainder of bronze or brass, including a number imperfect ; (**25,240–25,289**) bronze or brass pins for brooches ; (**25,290–25,392**) shoe and belt buckles of brass and bronze, and fragments of the same ; (**25,393–25,586**) miscellaneous bronze and brass objects, mountings, clasps, &c.; (**25,587–25,638**) miscellaneous objects of bronze and brass of modern origin ; (**25,639–25,653**) finger-rings of bronze, brass, and pewter, and portions of the same ; (**25,654–26,408**) rivets or fasteners of bronze for mending dishes and caldrons of sheet bronze ; (**26,409–26,533**) small loops of bronze wire ; (**26,534–26,605**) needles, mostly formed of thin sheet bronze rolled together in the form of a tube, some imperfect ; (**26,606–27,372**) points for laces, &c., many containing a portion of the lace ; (**27,373–28,046**) pins, mostly with the head formed by a small piece of wire twisted round one end ; (**28,047–28,322**) silver, copper, and billon coins of various reigns, principally of time of Mary Queen of Scots, James VI., Charles I., and Charles II., &c.; (**28,323**) large quantity of minute clippings of sheet bronze or brass, run portions, droplets, &c., of metal ; (**28,324–28,400**) whorl, three whorl-like objects, two weights for fishing lines, lumps, run portions, &c., of lead ; (**28,401–28,757**) terminal plate of a necklace, portions of rings and armlets, beads, pendants, and unworked fragments of jet ; (**28,758–29,148**) beads of glass of blue, green, yellow, and brown colour ; (**29,149–29,246**) beads of yellowish glass coloured with oxide of iron ; (**29,247–29,265**) beads of vitreous paste inlaid with enamel spirals, and fragments of others, portions of vitreous paste resembling spoiled beads, and two portions of armlets of vitreous paste ; (**29,266–29,282**) miscellaneous beads of early form, including a portion of a bead of vitreous paste of star pattern similar to the specimen figured in section BH, and a number of small polyglobular beads of



Discoidal Stone from Culbin Sands.

BI greenish-blue vitreous paste ; (**29,283–29,306**) small open rings of bronze wire ; (**29,307–29,325**) small portions of glass, including a finger-ring and a number of small pieces of yellow enamel similar to that on the enamelled beads ; (**29,326**) stamp or seal of pewter ; (**29,327–29,330**) two iron horseshoes of peculiar form, and two tanged knife-blades of iron ; (**29,331–29,342**) six arrow-heads, padlock of early form and part of another, "fleerish" for striking fire with flint, part of sword-blade, large spur-rowel, and a key, all of iron ; (**29,343**) socketed axe of iron ; (**29,344–29,370**) fish-hooks of iron, one $3\frac{3}{4}$ in. long ; (**29,371–29,391**) large headed iron studs and a fragment of leather with similar studs clinched through ; (**29,392–29,421**) miscellaneous iron objects, viz.—horseshoe, staple, clinched rivets, large nails, &c., found in a large shell-mound on the sands ; (**29,422**) bones of various animals found in the same shell-mound.

[For other articles from the Culbin Sands, see AQ 65, CM 18, DA 59, EA 120 and 122.]

GOLSPIE LINKS AND LITTLE FERRY, SUTHERLAND.

In Wall and Desk Case, East End of North Side of First Floor.

BJ 1–2394. Viz. — (**1–24**) arrow-heads, chiefly of chert, with barbs and stems ; (**25–113**) leaf-shaped, some imperfect ; (**114–142**) of lozenge-shape ; (**143–346**) arrow and spear heads, mostly imperfect ; (**347–1088**) scrapers of various forms and sizes ; (**1089–1158**) side scrapers and probably some knives ; (**1159–1304**) unworked flakes ; (**1305–1339**) borers and pointed implements ; (**1340–1347**) saws ; (**1348–1409**) worked implements ; (**1410–1441**) knives and similar implements ; (**1442–1930**) chips and flakes ; (**1931–2250**) chips and flakes from Badenoch ; (**2251–2303**) fragments of rude pottery ; (**2304–2306**) beads of glass, two imperfect ; (**2307, 2308**) beads of jet, both imperfect ; (**2309**) portion of pin of bronze ; (**2310**) partly perforated pebble of grit, probably meant for a whorl ; (**2311**) iron implement ; (**2312–2331**) worked implements ; (**2332–2392**) chips and flakes ; (**2393, 2394**) one leaf-shaped and one lozenge-shaped arrow-head of chert.

FENDOM SANDS, NEAR TAIN, ROSS-SHIRE.

In Desk Case, East End of North Side of First Floor.

BK 1–152. Viz.—(**1, 2**) small beads of green glass ; (**3**) bronze finger-ring, imperfect ; (**4–7**) bronze rivets ; (**8–26**) small loops of bronze wire, some imperfect ; (**27, 28**) portions of bronze dishes ; (**29–38**) six portions of mediæval glazed ware and four fragments of glass ; (**39, 40**) flint strike-lights ; (**41–47**) two whorls of lead, one ornamented in relief, half of whorl of steatite, three halves of others of earthenware, and portion of another of fine sandstone ; (**48–55**) iron implements, viz.—socketed knife-blade, $4\frac{3}{8}$ in. long, fish-hook, arrow-head, and five other objects ; (**56–65**) pellets of lead ; (**66–116**) three metal buttons, seventeen needles, some imperfect, thimble of early form, and thirty pins of early form ; (**117**) pin, $4\frac{1}{2}$ in. long, with flattened head ; (**118–121**) bronze brooches, from $1\frac{1}{8}$ to $2\frac{1}{4}$ in. diameter, ornamented with triangles filled with hatched lines ; (**122–126**) portions of other bronze brooches ; (**127–133**) pins for brooches, &c. ; (**134–140**) three bronze buckles and the ring portions of

BK four others; (**141–152**) coins, viz.—penny of John Baliol, one of James III., one James IV., one Mary Queen of Scots, one Francis and Mary, one James VI., one Henry III., one John, one Charles I., one Charles II., and two foreign—Deposited by Hugh Miller, 1891.

MISCELLANEOUS COLLECTIONS.

In Table Case on North Side of First Floor.

BN 1–4. From the Sands of Bracon, North Yell, Shetland, viz.—(**1, 2**) double-edged combs of bone, 3 in. long, with bronze rivets; (**3**) round-headed pin of bronze, 2 in. long; (**4**) round-headed pin of bone, $1\frac{1}{8}$ in. long—J. T. Irvine, 1868.

5, 6. Bone Pins, from the Island of Taransay, viz.—(**5**) $3\frac{1}{2}$ in. long, found at Paible; (**6**) $3\frac{1}{4}$ in. long, from the Sands of Rath—Captain F. W. L. Thomas, 1861.

7, 8. Bone Pins, $1\frac{3}{4}$ and $1\frac{7}{8}$ in. long, from the Sand, Colonsay—William Stevenson, 1881.

9–43. From the Island of Coll, viz.—(**9–13**) bone pins, from $3\frac{1}{8}$ to $5\frac{1}{2}$ in. long; (**14–18**) fragments of pottery; (**19–43**) flint implements and flakes—William M'Gillivray, 1881.

44. Barbed Spear-head of Bone, $3\frac{1}{4}$ in. long, from the Sands, Slains, Aberdeenshire—James Dalgarno.

45–53. From the Island of Eigg, viz.—(**45**) arrow-head of green flint, with barbs and stem; (**46**) polished axe of greenstone, $2\frac{1}{2} \times 2$ in.; (**47**) spear-head of greyish flint, 3 in. long; (**48**) whetstone of sandstone, $6\frac{1}{4}$ in. long; (**49**) stone whorl, $1\frac{3}{8}$ in. diameter; (**50**) bronze socketed axe, $2\frac{3}{4} \times 1\frac{5}{8}$ in., with loop on the side; (**51**) pin of iron coated with bronze, 6 in. long, with circular looped head; (**52**) bronze ring, $2\frac{3}{8}$ in. diameter; (**53**) lower jaw of a pig—Deposited by Professor N. Macpherson, 1882. (See also Section IL.)

COLLECTIONS FROM OTHER COUNTRIES FOR COMPARISON.

ENGLAND, IRELAND, FRANCE, BELGIUM.

Arranged in Wall and Floor Cases on North Side of Second Floor.

BO 1–10. Implements of chipped Flint of flat, oval, and pointed forms, from the gravel beds of St Acheul, Amiens, France—John Evans, 1870.

11–15. Implements of Flint, viz.—(**11**) of oval, pointed form, with thick butt, from Icklingham, Suffolk; (**12, 13**) of palæolithic form, from Santon Downham, Suffolk; (**14**) oval, pointed, with thickened butt, from Brandonfields, Suffolk; (**15**) flat, oval, and pointed, from Broomhill, Weeting, Norfolk—John Evans, 1870.

16–19. Implements of Flint of pointed form, from Thetford, Suffolk—Sir John Lubbock, 1867, and George Petrie, 1877.

20. Implement of Flint of flat, oval, pointed form, found in Cambridgeshire—John H. J. Stewart, 1881.

21–39. Implements of Flint, from Spiennes, Belgium, viz.—(**21–31**) oblong and

BO roughly pointed at each end ; (**32–33**) of oblong, flattish shape ; (**34, 35**) rough cores ; (**36–39**) large flakes—John Evans, 1867.

40–52. Specimens of Flints illustrative of the method of working, from Pressigny-le-Grand, France, viz.—(**40–44**) large cores ; (**45–48**) long flakes ; (**49–52**) chips — Henry Christy, 1865, and George Petrie, 1877.

53–56. Rudely-formed Implements of Flint, viz.—(**53**) from Brandonfield, Suffolk ; (**54–56**) from Broomhill—Dr John Evans, 1870.

57–64. Implements of Flint, found at Cissbury, near Worthing, Sussex, and from Herts, viz.—(**57**) rude block from which flakes have been struck off ; (**58**) portion of butt end of a chipped axe ; (**59, 60**) large round scraper and another of oblong form ; (**61**) flake showing traces of wear on one edge ; (**62–64**) large flakes partly worked—George Scott, 1875.

65–160. Implements of Flint, principally from Yorkshire Wolds, viz.—(**65**) rude scraper ; (**66–111**) scrapers of various forms and finish, mostly large ; (**112–120**) three scrapers, two scraper-like implements, two flakes, and two chips ; (**121–125**) fabricators, from 2 to $2\frac{3}{4}$ in. long ; (**126–133**) pointed implements, borers probably ; (**134–144**) leaf-shaped arrow-head, imperfect, three small scrapers, three triangular implements, and four other implements, probably knives ; (**145–153**) two knives, one fabricator, two gun-flints, and four other implements ; (**154, 155**) pebbles of flint, worn by use as hammer-stones ; (**156–160**) rude block cores—Canon William Greenwell, 1870, and Dr John Evans, 1869.

161–173. Flakes of Obsidian or Pitchstone, from Marathon, Greece—W. H. Anderson, 1823.

174–176. Palæolithic Implements of Flint, from France, viz.—(**174**) elliptical in form, $5\frac{1}{8} \times 3\frac{1}{4}$ in. ; (**175**) pear-shaped in outline, $4\frac{1}{4} \times 2\frac{3}{8}$ in., tapering to a point at one end, and rounded at the other, both from St Acheul ; (**176**) of chert, tongue-shaped, $5\frac{3}{8} \times 3\frac{1}{2}$ in., from Chelles—Dr Robert Munro, 1890.

177–216. Flint Implements of flattish, oval, and pointed forms, Flakes, &c., from France and Belgium, viz.—(**177–194**) from St Acheul, Somme Valley ; (**195–206**) from Albert, Somme Valley ; (**207**) large core from Pressigny ; (**208–211**) from Chelles, Somme ; (**212**) from Poitou, Meillet ; (**213, 214**) of quartzite, from Bois du Rocher, Dinan ; (**215**) from Moulin Quignon ; (**216**) from Vaudricourt — Sir Herbert Eustace Maxwell, 1889.

217–221. Rude Flint Implements, from England, viz.—(**217**) core, from Andover, Hants ; (**218**) from Milford Hill ; (**219**) from Hitchin ; (**220**) from Weyhill, Hants ; (**221**) from Westbury—*Ibid.*

222–239. Implements of Rudely-chipped Stone in the form of unfinished Axes, principally of Basalt, from the North of Ireland—*Ibid.*

240–242. Two Scrapers of Flint, from Middleton Moor, Yorkshire, and a large Scraper of Flint, from near Newhaven, England—*Ibid.*

243–246. Two long Flakes of Flint from Sens and one from Seligny, and large rude Scraper from Arboriau, France—*Ibid.*

247, 248. Rudely-chipped, Ovate-shaped Implements of Chert, each roughly pointed at one end, from Bois du Rocher—G. F. Lawrence, 1890.

249–282. Implements of Flint, from England, viz.—(**249–254**) finely-formed scrapers of flint, from Mildenhall, Suffolk ; (**255, 256**) scrapers, from Icklingham ; (**257**) scraper, from Dover, Kent ; (**258, 259**) scrapers, from Yorkshire Wolds ; (**260–265**) implements of flint, rudely chipped, one from London, the others from Wandsworth ; (**266–273**) thin flakes,

BO and a triangular-shaped flake, from the Thames; (**274–278**) elongated flake, rudely chipped, and four chips, from the Thames; (**279–281**) chips of flint from the Drift at Wandsworth; (**282**) implement of chipped flint, $5 \times 1\frac{3}{4}$ in., chisel-shaped, from the Thames—G. F. Lawrence, 1890.

283. Fabricator, $4\frac{1}{8}$ in. long, tapering at each end, from Warren Hill, Suffolk—*Sturrock Collection.*

284–292. Scrapers and other worked Implements, from Santon, Suffolk—E. Lovett, 1888.

DENMARK.

Wall and Desk Cases, North Side of Second Floor.

BP 1–329. (**1–6**) Axes of roughly-chipped flint, viz.—(**1**) $10\frac{1}{4} \times 3\frac{3}{8}$ in.; (**2**) $6\frac{1}{4} \times 3\frac{1}{4}$ in., fractured; (**3**) $6\frac{1}{4} \times 2\frac{1}{2}$ in.; (**4**) $6\frac{1}{2} \times 3\frac{3}{4}$ in.; (**5**) rude, $5 \times 1\frac{3}{4}$ in.; (**6**) $6\frac{1}{2} \times 2$ in.; (**7–12**) axes of flint, partly polished, viz.—(**7**) $11\frac{3}{4} \times 2\frac{7}{8}$ in.; (**8**) $8 \times 3\frac{1}{4}$ in.; (**9**) $9 \times 2\frac{1}{2}$ in.; (**10**) $5\frac{3}{4} \times 2\frac{1}{2}$ in.; (**11**) $6\frac{1}{2} \times 2$ in.; (**12**) $5\frac{1}{2} \times 2$ in.; (**13–15**) gouges of flint, viz.—(**13**) $4\frac{1}{2} \times 2\frac{1}{4}$ in.; (**14**) $3\frac{3}{4} \times 1\frac{3}{4}$ in.; (**15**) $4\frac{3}{4} \times 1\frac{7}{8}$ in.; (**16–17**) axes of greenstone, viz.—(**16**) $3\frac{5}{8}$ in., imperfect; (**17**) $4 \times 1\frac{3}{4}$ in.; (**18–19**) chisels of flint, partly polished, viz.—(**18**) $6\frac{1}{4} \times \frac{3}{4}$ in.; (**19**) $5\frac{1}{2} \times 1$ in.; (**20–30**) perforated stone hammers of various shapes and sizes; (**31**) cast of stone hammer of peculiar form; (**32**) cast of flint harpoon-head, $6\frac{1}{4}$ in., long; (**33–49**) flint knives and spear-heads, viz.—(**33**) $9\frac{1}{4} \times 1\frac{1}{2}$ in.; (**34**) $9 \times 1\frac{1}{4}$ in.; (**35**) $9 \times 1\frac{1}{8}$ in.; (**36**) $8\frac{7}{8} \times 1\frac{1}{2}$ in.; (**37**) $8\frac{1}{2} \times 1\frac{3}{4}$ in.; (**38**) $8\frac{1}{4} \times 1\frac{7}{8}$ in.; (**39**) $7\frac{7}{8} \times 1\frac{5}{8}$ in.; (**40**) $7 \times 1\frac{1}{4}$ in.; (**41**) $6\frac{3}{4} \times 1\frac{1}{2}$ in.; (**42**) $6\frac{1}{2} \times 2\frac{1}{2}$ in.; (**43**) $6\frac{1}{2} \times 1$ in.; (**44**) $6\frac{1}{8} \times 1\frac{1}{8}$ in.; (**45**) $5\frac{1}{2} \times 1\frac{1}{8}$ in.; (**46**) $5\frac{1}{2} \times 1\frac{1}{2}$ in.; (**47**) $5\frac{5}{8} \times 1\frac{7}{8}$ in.; (**48**) $5\frac{1}{2} \times 1\frac{1}{2}$ in.; (**49**) $4\frac{7}{8} \times 1$ in.; (**50–56**) crescent-shaped implements of flint, viz.—(**50**) $6\frac{1}{2} \times 1\frac{5}{8}$ in.; (**51**) $5\frac{3}{4} \times 1\frac{3}{8}$ in.; (**52**) $5\frac{1}{2} \times 1\frac{7}{8}$ in.; (**53**) $5 \times 1\frac{3}{8}$ in.; (**54**) $4\frac{7}{8} \times 1\frac{5}{8}$ in.; (**55**) $4\frac{3}{8} \times 1\frac{1}{2}$ in.; (**56**) $4\frac{1}{8} \times 1\frac{1}{8}$ in.; (**57–70**) flakes of flint from 2 to 5 in. long, and a flint core; (**71–72**) flint axe and dagger from a tomb in the island of Moën; (**73**) cast of die, one of a set, with a runic inscription on it; (**74**) ornamented whorl of lead, 1 in. diameter; (**75**) axe of flint, $5\frac{5}{8} \times 2\frac{3}{8}$ in., partly polished; (**76–88**) implements of flint, &c., from Jutland, viz.—(**76**) pointed axe of granite, $6\frac{3}{4} \times 1\frac{5}{8} \times 1\frac{1}{4}$ in.; (**77**) polished chisel of flint, $7\frac{3}{8}$ in. long; (**78**) flint knife, $11\frac{5}{8}$ in. long; (**79**) flint knife, 9 in. long, crimping on handle; (**80**) dagger of flint, 7 in. long, with expanding handle; (**81, 82**) daggers of flint, $9\frac{5}{8}$ in. and $6\frac{7}{8}$ in. long; (**83**) leaf-shaped implement, $8\frac{3}{4} \times 2\frac{1}{2}$ in.; (**84**) curved scraper-like implement, $5\frac{1}{4}$ in. long; (**85**) oblong-shaped implement, $5\frac{1}{2}$ in. long; (**86**) spear-head, $4\frac{1}{2}$ in. long, with serrated edges; (**87**) leaf-shaped spear-head, $3\frac{7}{8}$ in. long, hollow based; (**88**) triangular arrow-head, $3\frac{3}{4}$ in. long, with tang; (**89–91**) axes of flint, $5\frac{1}{4} \times 2\frac{1}{4}$ in., chipped and polished; $5\frac{1}{4} \times 2\frac{1}{8}$ in., $7 \times 2\frac{5}{8}$ in.; (**92**) flint knife, $3\frac{3}{4} \times 1\frac{1}{8}$ in., finely chipped; (**93**) adze of flinty stone, partly polished, $4 \times 1\frac{1}{2}$ in., from Sealand; (**94**) razor-shaped knife of flint, $4\frac{3}{4}$ in. long, from Jutland; (**95–101**) crescent-shaped implements with straight under edge, from $4\frac{3}{8}$ in. long to $7\frac{3}{8}$ in. long; (**102–106**) triangular arrow-heads, from $2\frac{7}{8}$ in. to $4\frac{5}{8}$ in. long; (**107**) implement of flint, $10\frac{3}{4}$ in. long, partly ground; (**108**) core, 5 in. long, with ten facets; (**109–120**) flint chisels, from $4\frac{1}{8}$ in. to $8\frac{1}{4}$ in. long; (**121–124**) semicircular implements, from $4\frac{1}{4}$ to $5\frac{3}{8}$ in. long; (**125–134**) daggers of flint, from $5\frac{1}{4}$ in. to $9\frac{1}{2}$ in. long; (**135–158**) tanged spearhead-like implements, from $3\frac{7}{8}$ in. to $9\frac{1}{4}$ in. long, one serrated; (**159–162**) elongated doubly-pointed and

BP finely worked implements, from $9\frac{7}{8}$ in. to $12\frac{3}{4}$ in. long; (**163**) flint implement, $7\frac{3}{4}$ in. long $\times 1\frac{1}{2}$ wide, pointed at one end; (**164–169**) gouges of flint, from $4\frac{1}{4} \times 1\frac{7}{8}$ in. to $7\frac{5}{8} \times 2\frac{1}{4}$ in.; (**170**) axe of flint, $4\frac{1}{2} \times 2\frac{1}{8}$ in., butt pointed; (**171–174**) chipped axes of flint, from $6 \times 2\frac{3}{8}$ in. to $11\frac{3}{8} \times 3\frac{1}{8}$ in.; (**175–189**) polished axes of flint, from $3\frac{3}{4} \times 2\frac{1}{8}$ in. to $13 \times 3\frac{1}{4}$ in.; (**190**) arrow-head, $2_{\frac{1}{16}}$ in. long, deep hollow base; (**191**) triangular arrow-head with barbs and stem; (**192–195**) leaf-shaped arrow-heads, each with hollow base; (**196**) large spiral bronze armlet; (**197–211**) pins, needles, rivets, &c., of bronze; (**212–214**) a tutulus and two portions of bronze; (**215–218**) tweezers of bronze; (**219–236**) awls and pins of bronze; (**237–247**) knives or razors of bronze, with curved handles; (**248–254**) armlets of bronze from $1\frac{3}{4}$ to $2\frac{3}{4}$ in. diameter; (**255, 256**) necklace, 7 in. diameter, a rod of bronze spirally twisted, and a spiral armlet, 3 in. diameter; (**257**) diadem, 9 in. diameter; (**258–269**) bone pin, three large ornamental pin heads, six mountings, &c., of bronze, and two amber beads; (**270–283**) two pair bronze pincers, razor, two spiral finger-rings, six portions of armlets, pin with large ornamental head, head of another, and stalk of a third, and a bronze mounting; (**284–289**) fragments of bronze swords, viz.—(**284**) 18 in. long, with tang; (**285**) $13\frac{3}{8}$ in. long, with four rivet-holes, rivet, and highly ornamented pommel; (**286**) $15\frac{3}{4}$ in. long, with ornamented pommel; (**287**) $9\frac{1}{2}$ in. long, with three rivet-holes; (**288**) tanged rapier-blade, $13\frac{7}{8}$ in. long; (**289**) 12 in. long, with solid ornamented handle; (**290–292**) bronze daggers, viz.—(**290**) $10\frac{1}{4}$ in. long; (**291**) $8\frac{7}{8}$ in. long, with three rivets in place, blade ribbed; (**292**) tanged, $12\frac{1}{8}$ in. long; (**293–307**) axes of bronze, viz.—(**293**) flanged, imperfect, $6\frac{1}{2}$ in. long, finely ornamented; (**294**) flanged, 6 in. long; (**295**) flanged, imperfect, $6\frac{3}{8}$ in. long; (**296**) flanged, butt imperfect, $4\frac{3}{8}$ in. long; (**297**) flat, slightly imperfect, $4\frac{1}{2}$ in. long; (**298**) socketed, $2\frac{1}{8}$ in. long, with flat faces and loop; (**299**) socketed, $2\frac{7}{8}$ in. long, with flat faces no loop; (**300**) slightly flanged, $5\frac{1}{8}$ in. long; (**301**) flanged, imperfect, $5\frac{7}{8}$ in. long; (**302**) flanged, $5\frac{3}{4}$ in. long; (**303**) socketed, $2\frac{3}{4}$ in. long, with flat faces and loop; (**304**) socketed, $2\frac{1}{2}$ in. long, with loop; (**305**) $2\frac{1}{4}$ in. long, without loop; (**306**) $2\frac{3}{4}$ in. long, with loop; (**307**) $3\frac{1}{2}$ in. long, square socket, with loop; (**308–311**), bronze spear-heads of leaf-shape, viz.—(**308**) $6\frac{5}{8}$ in. long; (**309**) $4\frac{1}{4}$ in. long; (**310**) $4\frac{1}{8}$ in. long, imperfect; (**311**) $4\frac{1}{4}$ in. long; (**312**), shuttle-shaped whetstone of quartz, $4\frac{1}{8}$ in. long; (**313**) circular stone disc, $4\frac{3}{8}$ in. diameter, imperfect, perforated through centre; (**314**) rudely-formed and perforated axe of granite, $9\frac{3}{8}$ in. long; (**315**) axe of greenstone, $4\frac{1}{2} \times 2\frac{5}{8}$ in., perforated at top; (**316–318**) finely-formed pick-shaped axes of stone, $4\frac{1}{4}$ in., $6\frac{3}{8}$ in., and $7\frac{5}{8}$ in. long, all perforated; (**319–325**), perforated axes and axe-hammers of greenstone, from $4\frac{3}{4}$ in. to 6 in. long; (**326–328**) small rudely-formed stone axes, two perforated, and the third partially so; (**329**) finely-formed axe-hammer of diorite, $7\frac{3}{4}$ in. long.

[Presented by the King of Denmark, Royal Society of Northern Antiquaries, Sir C. Wyville Thomson, Prof. George Stephens, Sir Herbert E. Maxwell, Robert Carfrae, 1890, Purchased, &c.]

SWEDEN AND NORWAY.

Wall and Desk Cases, North Side of Second Floor.

BQ 1–145. Viz.—(**1–4**) axes of flint, roughly chipped, from $5\frac{1}{4} \times 1\frac{3}{4}$ in. to $11 \times 3\frac{1}{4}$ in.; (**5–17**) axes of flint, partly polished, from 4×2 in. to $6\frac{1}{2} \times 2$ in., from Scania; (**18–21**) portions of polished flint axes, from Scania; (**22–24**) axes of greenstone, $4\frac{1}{2} \times 2$, $7 \times 1\frac{3}{4}$, and 7×3 in., from Scania; (**25–30**) daggers of chipped flint, from $5\frac{1}{4} \times 1$ in. to $7 \times 1\frac{1}{4}$ in., from Scania; (**31**)

BQ flint dagger, $4\frac{1}{2} \times 1\frac{3}{8}$ in., from Malmo—R. M. Smith, 1881; (**32–48**) flint knives, spear-heads, &c., from 2 to $7\frac{1}{2}$ in. long, from Scania; (**49–51**) triangular-shaped spear-heads, $3\frac{1}{4} \times 1\frac{1}{4}$, $2\frac{3}{4} \times 1\frac{1}{4}$, and $1\frac{3}{4} \times 1$ in.; (**52–66**) crescent-shaped implements of flint with straight scraping or cutting edge, from $2\frac{1}{4} \times 1$ in. to $6\frac{3}{4} \times 1\frac{3}{4}$ in., all from Scania; (**67–72**) chisels of flint, partly polished, from $4\frac{3}{4} \times \frac{7}{8}$ to 6×1 in., from Scania; (**73**) ornamented whorl of lead, $\frac{3}{4}$ in. diameter; (**74–80**) flakes of flint, from 2 to 5 in. long; (**81–84**) rudely-worked implements of flint, from $3\frac{1}{2}$ to 4 in. long; (**85, 86**) whetstones of quartzite, grooved round the circumference; (**87, 88**) perforated axes of greenstone, $8\frac{1}{2} \times 2\frac{1}{4}$ and $5\frac{1}{2} \times 2\frac{3}{4}$ in., from Scania; (**89–94**) spherical stone balls, from $2\frac{3}{4}$ to $3\frac{3}{4}$ in. diameter, from Scania; (**95–108**) arrow-heads of various forms, from Scania; (**109–122**) beads of amber, stone, vitreous paste, &c., from Scania; (**123–128**) implements from a tomb of the Iron Age at Mandel, Norway, viz.—(**123**) oval-shaped sinkstone with four grooves; (**124**) shuttle-shaped whetstone of quartz, grooved for suspension; (**125**) natural-shaped whetstone of quartz; (**126–128**) ornamented whorls, of stone; (**129–145**) ornamented and plain stone whorls, from Scania—Presented by Robert Chambers, LL.D., and James Cowan.

JAPAN.

In Wall and Table Cases on South Side of Second Floor.

BR **1–24**. Arrow-heads, &c., mostly of rude form, of flint, chert, and obsidian, all found in the neighbourhood of Tokio—Dr H. Faulds, 1880.

25–27. Polished Axes, viz.—(**25**) of mottled greenstone, $4\frac{1}{8} \times 1\frac{1}{16}$ in., slightly tapering to the butt, which is imperfect—Sir C. Wyville Thomson, 1877; (**26**) of porphyritic stone, $3\frac{1}{2} \times 1\frac{5}{8} \times \frac{13}{16}$ in., slightly imperfect at the cutting end; (**27**) of green claystone, $3\frac{5}{16} \times 1\frac{7}{16} \times \frac{1}{2}$ in., both by Dr H. Faulds, 1880.

28. Stone Implement, probably for grinding grain—Dr H. Faulds, 1880.

29–31. *Phalli*, viz.—(**29**) of stone, $9\frac{7}{8}$ in. long, with incised inscriptions in the Japanese character, (**30**) of wood, 9 in. long, with written inscriptions, from Conseï, near Yumoto in Kōtsuki Province, Japan—Dr W. G. Dickson, 1885; (**31**) of clay, from a graveyard in Japan—Dr J. G. S. Coghill.

32–36. Pottery found at Shiga, Otsu, Lake Biwa, viz.—(**32**) found in a tumulus, a shallow dish, $5\frac{3}{8}$ in. diameter, with lid; (**33**) Aino pottery, urn of drinking-cup type, 8 in. high, $6\frac{3}{8}$ in. across the mouth, imperfect on one side, rudely ornamented with incised lines; (**34**) Aino pottery, urn of drinking-cup type, 7 in. high, rudely ornamented and imperfect on one side; (**35**) Aino pottery, urn of drinking-cup type, $4\frac{3}{4}$ in. high, $3\frac{1}{4}$ in. across the mouth, rudely ornamented and imperfect; (**36**) shallow dish about 4 in. diameter, ornamented round the rim, imperfect—Dr John Anderson, 1889.

37. Whorl of baked clay, $1\frac{1}{2}$ in. diameter—Dr W. G. Dickson, 1886.

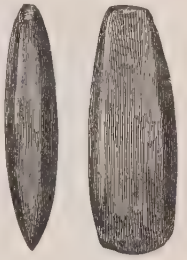
[A suit of obsolete Japanese armour is shown at east end of room beside the Egyptian case, and two war masks and four swords are in the floor case at entrance door.]

ASIA.

In Desk and Wall Cases on South Side of Second Floor.

BS 1–7. Axes of Jadeite and Jade-like Stone, all small, perfect, and finely polished, the largest $2\frac{1}{8} \times 1\frac{1}{2}$ in., and the smallest $1\frac{1}{4} \times \frac{1}{2}$ in., from Momien, Western Yunan, China—Dr John Anderson, 1874.

8–11. Three Flakes and a large Implement resembling a tanged spear-head with blunt point, all of cherty flint, from caves in Wady Meghara, Arabia—John Turnbull, W.S., 1865.



BS 7.

12–69. Collection of Cores, Chips, and Flakes, of Jasper, Agate, &c., from Jubbulpore, Central India—Sir Charles Lyell, Bt., 1865.

70–83. Fourteen small Axes of Jadeite and hard Greenstone, mostly finely formed and polished, from $1\frac{1}{2}$ to 3 in. long, from Alexandretta, Asia Minor—Purchased 1888.

84–113. Six Cores and twenty-four Flakes of Flint, found at Sakkar Rohri, in the Shikapore Collectorate, Upper India. The flakes vary from 2 to $4\frac{1}{2}$ in. long. One of the cores shows 13 facets. Two others are large, one $4\frac{1}{2}$ in. long, from which flakes have been struck round half the circumference; the other, 4 in. long, is conical shaped, and shows 16 facets—W. F. Sinclair, 1882.

114–119. Polished and Unpolished Axes, viz.—(**114**) of weathered greenstone, $3\frac{3}{4} \times 2$ in., almost circular in section, with blunt cutting edge, from the Shevawy Hills—R. Cadell, 1879; (**115**) of diorite, 6×3 in., polished; (**116**) of basalt rudely chipped, $5\frac{1}{2} \times 3\frac{1}{8}$ in.; (**117**) of diorite, $4\frac{1}{4} \times 2\frac{1}{2}$ in., cutting edge slightly imperfect; (**118**) of diorite, $2\frac{1}{2} \times 2$ in., butt imperfect; (**119**) of diorite, $4\frac{1}{4} \times 2\frac{1}{2}$ in.—all four from Banda District, N.W. India—J. H. Rivett-Carnac, 1883.

120, 121. Upper and Lower Stones of Quern of Diorite, $15\frac{1}{2}$ in. diameter, ornamented, from India.

122–126. Objects in Clay, viz.—(**122–124**) discs of reddish burnt clay, $1\frac{1}{16}$, $1\frac{7}{8}$, and 2 in. diameter, the smallest with axial perforation, and apparently meant for spindle whorl; (**125**) small truncated cone, 1 in. diameter, with vertical perforation; (**126**) bead of burnt clay, $1\frac{3}{16}$ in. diameter, unfinished, partly ribbed on one side—all from Futegurh, Bengal—J. H. Rivett-Carnac, 1883.

127. Thirty Beads of Rock Crystal, Carnelian, Agate, &c., two of which are enamelled, mostly found in the Futegurh District, North-West Presidency—J. H. Rivett-Carnac, 1883.

128–152. Cores, Flakes, and Chips of Cherty Flint, from Banda, North West India—J. H. Rivett-Carnac, 1883.

153, 154. Axes, viz.—(**153**) of diorite, $4\frac{1}{4} \times 2\frac{1}{4}$ in., with straight cutting edge; (**154**) of felstone, $7\frac{1}{4} \times 3\frac{5}{8}$ in., rudely formed, from Bundelkund, India—Dr Arthur Anderson, C.B., 1885.

155, 156. Two Rudely-formed Implements of Cherty Quartz, from the Laterite Beds of Madras—Edward Lovett, 1887.

157–164. Small Pendants of Carnelian in the form of stemmed arrow-heads, from Arabia—Edward Lovett, 1888.

165, 166. Flakes of Chert, from Bethsaour, Palestine—Sir Herbert Eustace Maxwell, Bart., 1889.

BS 167–177. Eight small Flakes, one Core, and two Chips of Flint and Jasper, from India.—*Sturrock Collection.*

BS 630.

178 – 446. Collections from various localities on the Vindhya Hills, viz.—(**178–275**) fine small flakes of agate, jasper, &c., from Morahna Pahar Cave; (**276–365**) small finely worked implements of triangular, crescent, and other forms, and small flakes, with fine secondary working on the edges, from Morahna Pahar Cave, Gharwa Pahari Cave, Banda Fields, Kalinjar, Morpha, Naro, and one or two other localities; (**366–401**) cores of agate, jasper, &c., from Morpha, Morahna Pahar, Gharwa Pahari, Naogaon Jabalpur, Rajapur, Mirzapur, Likhneya Pahar, &c.; (**402–446**) unworked flakes and chips, from Bhagelkhor, Banda, Jabalpur, Naro, Kalinjar, Morpha, Morahna, &c.—Purchased 1888 and 1890.

447–517. Collection of rude Cores, two small worked Implements, and Chips, from the Pen Taluka, Kolaba District, Bombay—W. F. Sinclair, 1890.

518–560. Collection of Implements and Ornaments of Stone and Shell, from Shell Mounds in Cambodia, viz.—(**518**) gouge of basalt, $4\frac{1}{8} \times 1\frac{3}{4}$ in., polished at the cutting end and with roughened butt; (**519–524**) axes of greenstone, polished, the cutting edge of each forming an obtuse angle; (**519**) $4\frac{1}{2} \times 2$ in.; (**520**) $4\frac{1}{2} \times 2\frac{7}{16}$ in.; (**521**) $4 \times 1\frac{3}{4}$ in.; (**522**) $3\frac{1}{2} \times 1\frac{5}{8}$ in.; (**523**) $3\frac{1}{4} \times 1\frac{3}{4}$ in.; (**524**) $2\frac{7}{8} \times 1\frac{1}{2}$ in., four imperfect at the cutting edge; (**525, 526**) axes or adzes of argillaceous slate, the cutting edge of each forming

BS an obtuse angle, $3\frac{3}{8} \times 1\frac{3}{4}$ in. and $3\frac{5}{8} \times 1\frac{1}{8}$ in., both shouldered Burmese form ; (**527**) loom weight of clay, of cylindrical form, perforated longitudinally ; (**528, 529**) small balls of burnt clay, one perforated ; (**530–548**) sixteen flat, circular, and three cylindrical-shaped, beads of shell ; (**549**) ring of shell, 3 in. diameter ; (**550, 551**) oblong pendant of shell for a necklace, $3\frac{1}{4}$ in. long, and circular breast ornament of shell, 3 in. diameter ; (**552**) disc of clay, $1\frac{7}{8}$ in. diameter by $\frac{3}{4}$ in. thick, with incised cross of hatched work on each face and grooved round the edge (an ear

Objects from Naga Grave, BS 637, 639, 640.

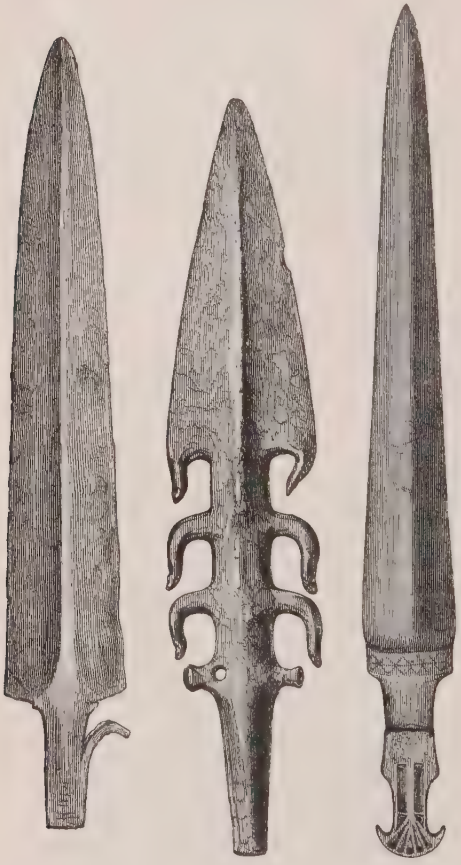
ornament?) ; (**553**) whorl (?) of wood, $1\frac{1}{8}$ in. diameter; (**554**) pin, apparently of ivory, $2\frac{3}{8}$ in., the upper part shaped like an animal's head ; (**555**) ring of black slate-stone, $3\frac{1}{8}$ in. diameter, finely smoothed and perfect ; (**556**) 117 small beads of shell, each about $\frac{1}{8}$ in. diameter, from a necklace ; (**557, 558**) small pendants of shell for necklace, each $1\frac{5}{8}$ in. long, pierced at each end for suspension ; (**559**) small shell with the upper part removed, and a small portion of the shell-mound ; (**560**) portion of very thick human skull and half of a lower jaw—Purchased 1890.

561–625. Collection from Chota Nagpur, N. W. India, viz.—(**561–564**) small polished axes of fibrolite, $1\frac{1}{2} \times \frac{13}{16}$ in., $1\frac{9}{16} \times 1$ in., $2 \times 1\frac{7}{16}$ in., and $2\frac{1}{8} \times 1\frac{5}{8}$ in. ; (**565**) axe of greenstone, polished, $2\frac{1}{2} \times 1\frac{15}{16}$ in., the cutting edge and sides rubbed down with water, the lotion having been used for the cure of bruises ; (**566–609**) beads of glass, stone, agate, crystal, &c., found in and about graves on the hill-sides ; (**610–613**) three thin flakes of cherty stone, pointed at one end and finely worked along one edge, $1\frac{3}{4}$ in., $1\frac{3}{4}$ in., and 2 in. long, and the point of a fourth ; (**614–616**) flakes of chert and flint ; (**617**) small core of flint ; (**618**) small triangular-shaped implement of flint, worked on two opposite sides of the same face ; (**619–623**) pieces of agate, apparently shaped for beads ; (**624**) piece of hematite ; (**625**) eleven small fragments of ornaments, &c., apparently of copper—W. H. P. Driver, 1890.

626–628. Three well-formed Cores of Cherty Stone, from Sakkar—Surgeon-General Turnbull, 1892.

BS 629, 630. Bronze Masks, 10 in. and 11 in. high, dug up at Kanajor, Mysore, India—R. C. Sanderson, 1885.

631. Axe of Fibrolite, polished, $2\frac{5}{8} \times 1\frac{7}{8}$ in., from China—Allan Mathewson, 1882.



BS 634, 636, 647.

632. Staff of Office of a Mandarin, of Jade, $16\frac{1}{2}$ in. long, finely carved, from China—Robert Miln, 1881.

633. Axe of Copper, $7\frac{1}{4} \times 5$ in., of triangular form, from Gungeria, Central India—A. W. Franks, 1874.

634. Broad heavy Blade of Coppery Bronze, $28\frac{3}{4}$ in. long, with tang, from India—Sir Walter Elliot, 1874.

635, 636. Harpoon-heads of Bronze, viz.—(**635**) $12\frac{1}{2} \times 2\frac{1}{2}$ in. — Sir Walter Elliot, 1874; (**636**) $12 \times 2\frac{1}{4}$ in., said to have been found in the Tweed, but from India — Purchased 1869.

637-646. Collection from a Naga grave, Ladack, Cachar, Assam frontier, viz. — (**637, 638**) spiral bronze armillæ, 3 in. diameter; (**639**) bronze armlet of single turn; (**640 - 642**) pendants of necklace of chank shell; (**643, 644**) spear-head, 23 in. long, and "Daw" blade, both of iron; (**645**) small bronze rings; (**646**) arm-bones showing green stain from armlets—Robt. Graham Thoms, 1870.

647. Bronze Dagger cast in one piece, $17\frac{1}{2}$ in. long, from the Punjaub, India—J. M. Douie, 1883.

648-651. Vessels of Pottery, from Madras—Surgeon-General Bidie, 1890.

652-655. Vessels of Pottery, one a lamp from Yellamah's Temple, Pennkonda, Southern India—B. Macleod, 1884.

[In addition to the objects here catalogued, there are many miscellaneous objects of modern date. These include statues and figures of Buddha in stone

BS and bronze, small bronze figures of Indian deities, a copper grant of land (*sannas*) in Cingalese, dated 1694, MSS. on palm-leaves, clay dagobas with Sanscrit inscriptions, &c., and a collection of spears, swords, daggers, knives, muskets, &c., from India, Ceylon, Burmah, Malay Peninsula, Siam, China, and Japan.]

NEW ZEALAND.

In Wall Case on South Side of Second Floor.

BT 1-3. Mere-Meres, viz.—(**1**) of dark-coloured porphyritic stone, 17½ in. long, 4 in. across widest part of blade—Robert Miln, 1881; (**2**) of greenstone, 14½ in. long, 3½ in. across the blade—Purchased 1869; (**3**) of greenstone, 14¾ in. long, 3 in. across the blade—T. B. Johnston, 1869.

4-6. Patu-Patus of Bone, viz.—(**4**) 16¼ in. long, 2½ in. across widest part, ornamented with incised scrolls on both sides, from near Ngaruawahia, on the Waikăto River—Dr Adam B. Messer, 1865; (**5**) 19 in. long, 3¼ in. broad, handle end imperfect—Purchased 1869; (**6**) 15 in. long, 4½ in. broad, carved with grotesque figure grasping the lower part of handle, which also terminates at the free end in a grotesque carving—Purchased 1874.

7. Axe of Unpolished Greenstone, 6¼ × 3 in., flattish, imperfect on one side, from a Maori Pah, near Rangiwahia, in the Waikăto District—Dr Adam B. Messer, 1865.

8. Adze of compact Greenstone, 5½ × 1¾ in., cutting edge polished, butt roughened—Purchased 1889.

9. Adze of Jade, 5½ × 2½ in., finely polished—Presented 1828.

10. Adze of Jade, 4½ × 2½ in., polished—Rev. John Milligan, 1868.

11. Adze of Greenstone, 4 × 1½ in., chisel-shaped, polished—James Robertson. 1865.

12. Axe or Adze of Jade, 2 7/16 × 1⅝ in., from Kopu—Alexander Bryson, 1866.

13. Axe or Adze of Basalt, 11¼ × 2⅜ × 2⅛ in., upper end on one face constricted, and narrowing from the middle to the cutting edge, which is only 1⅛ in. in width—Walter Lorne Campbell, 1873.

BT 13.

14-19. Adze-like Axes, viz.—(**14**) of jade, 6 × 1⅞ in., rudely formed, found near the mouth of the Clutha River; (**15**) of claystone, 3⅛ × 1 9/16 in., from Saddlehill Bush, Otago; (**16**) of porphyritic stone, 5¼ × 2¼ in., from Saddlehill, near Dunedin; (**17**) of basalt, 4¾ × 2¼ in., from Kackorœ; (**18**) of basalt, cutting end only, found near Abbott's Creek Bridge; (**19**) cutting end only, of lava, from Saddlehill Bush, Otago—Dr Lauder Lindsay, 1864 and 1877.

20. Adze of Jade, 8½ × 2⅞ in., imperfect at the butt—Purchased 1880.

21. Handle formed from branch of a tree, 15 in. long, with cross-head 5 in. long, for stone axe or adze, from Ngaruawahia, Waikăto River—Dr Adam B. Messer, 1865.

22. Rounded Pestle of Stone used to crush maize or fern roots, from Paitai, Waikăto River—Dr Adam B. Messer, 1865.

23. Cylindrical-shaped Implement of Bone, 5½ in. long, ⅝ in. diameter, with handle 3 in. long, perforated near the lower extremity, which is cupped

BT and concave, from a Maori Pah at Rangiriri—Dr Adam B. Messer, 1865.

24-26. Tiki-Tikis or small figures in Jade, worn on the person by the natives, viz.—(**24**) 6 in. high—Captain Hugh Smart, R.N., 1837 ; (**25**) $2\frac{1}{2}$ in. high, with thong of leather and portion of human bone attached—Mrs Duncan Forbes ; (**26**) $5\frac{1}{2}$ in. high, the eyes inlaid with mother-of-pearl—*Lerwick Collection.*

27, 28. Pendants of Jade, viz.—(**27**) barbed, $2\frac{1}{2}$ in. in length, Sir Walter Simpson, 1870 ; (**28**) $5\frac{1}{2}$ in. in length, pierced at one end for suspension—Dr Lauder Lindsay, 1877.

29-34. Fragments of Obsidian, formerly used as Knives—Walter Lorne Campbell, 1873.

35, 36, Axes of Greenstone, viz.—(**35**) $10\frac{1}{2} \times 3$ in.; (**36**) $6\frac{1}{4} \times 3$ in., narrowed and roughened at the butt—Dr J. A. J. Murray, 1884.

37, 38. Mere-Meres, viz.—(**37**) of veined slate, $16\frac{1}{2}$ in. long, finely polished—Purchased 1884 ; (**38**) of basalt, $12\frac{7}{8}$ in. long, chipped at point and partly polished—Purchased 1885.

39, 40. Pendants of Jade in the form of small Axes, each with ground and smoothed tooth of a cetacean attached—Purchased 1886.

41. Mere-Mere of Jade, rudely formed and apparently unfinished, $11\frac{5}{8}$ in. long—Purchased 1886.

42-48. Implements from New Zealand, viz.—(**42**) finely-formed adze of greenstone, $17 \times 4\frac{3}{8}$ in., finely polished, constricted on one side at the butt end ; (**43**) adze of greenstone, $9\frac{1}{2} \times 3$ in., rudely made, the butt shaped for handle ; (**44**) adze of greenstone, $6\frac{5}{8} \times 2$ in., finely formed, the butt shaped for handle ; (**45**) adze of greenstone, $5\frac{1}{4} \times 4\frac{5}{8}$ in., the butt $2\frac{3}{4}$ in. broad ; (**46**) adze-shaped axe of jadeite, $4\frac{1}{2} \times 1\frac{3}{4}$ in., rudely made ; (**47**) axe of indurated sandstone, $6\frac{3}{4} \times 3\frac{3}{8}$ in., the surface scaled off ; (**48**) axe of indurated sandstone, $4\frac{5}{8} \times 2$ in., rudely formed—Purchased 1886.

49. Adze of Greenstone, $21\frac{1}{2}$ in. long, the butt formed for attachment to handle—Purchased 1887.

50. Adze or Axe of Jade, $6\frac{3}{8} \times 2\frac{1}{8}$ in., finely polished, and showing a quantity of gum on the butt end, where it has been attached to the handle—Miss Dudgeon, 1887.

51, 52. Implements, viz.—(**51**) roughly-chipped adze of lava, $12\frac{1}{4} \times 3\frac{3}{4}$ in. ; (**52**) pointed adze of lava, 9 in. long, partly polished, both from Pareora, South Canterbury—J. Stewart Robertson, 1887.

53. Tiki-Tiki of Jade, $4\frac{1}{2}$ in. high, with portion of human bone attached—Purchased at Gibson-Craig Sale, 1887.

54, 55. Mere-Meres of Basalt, viz.—(**54**) $12\frac{1}{8}$ in. long, finely formed ; (**55**) $11\frac{1}{4}$ in. long, finely formed, slightly chipped at the point—Purchased 1887.

56. Adze of Lava, $7\frac{3}{4} \times 2\frac{3}{8}$ in., finely formed and polished—Purchased 1887.

57. Pendant of Jade, $7\frac{3}{8}$ in. long, shaped like a patu-patu—Purchased at Gibson Craig Sale.

58. Adze of compact, fine Black Stone, $3\frac{3}{8} \times 1\frac{7}{8}$ in.—John M'Meckan, 1888.

59. Adze of Granitic Stone, $10\frac{1}{2} \times 2\frac{7}{16}$ in., partly polished, with pecked and narrowed butt—Purchased 1888.

60. Adze of Lava, $12 \times 2\frac{15}{16} \times \frac{3}{4}$ in., polished, from Timaru—*Sturrock Collection.*

61. Oval-shaped Piece of Jade, $4 \times 2\frac{1}{2}$ in., smoothly polished, partly perforated at one end—*Ibid.*

BT 62–65. Adzes, &c., viz.—(**62**) flat adze of jade, $7\frac{1}{4} \times 4\frac{1}{2}$ in., the surfaces finely polished; (**63**) adze of diorite, $8\frac{1}{2} \times 2\frac{1}{4}$ in., cutting edge slightly imperfect, the butt end constricted for attachment to handle, finely formed and polished; (**64**) chisel-like adze of felstone, $6\frac{1}{4} \times 1\frac{1}{16}$ in., partly polished, with roughened butt; (**65**) chisel of jade, irregularly formed, $3\frac{7}{8} \times \frac{5}{8}$ in.—Representatives of the late Dr Menzies of New Zealand, 1890.

AUSTRALIA.

In Wall Case on South Side of Second Floor.

BU 1. Axe of Greenstone, $4\frac{7}{16} \times 3$ in., polished, from New South Wales—Sir H. E. Maxwell, Bart., 1889.

2. Axe of Greenstone, $3\frac{5}{8} \times 2\frac{5}{8}$ in., from North Australia—Dr Arthur Anderson, 1888.

3, 4. Axes of Greenstone, viz.—(**3**) $6 \times 2\frac{3}{4}$ in., being a water-rolled stone, ground to a cutting edge at one end, (**4**) $4\frac{3}{4} \times 2$ in., rough, ground to cutting edge at one end, both from Coolangatta Hill, Shoalhaven, N.S.W.—William Chambers, jun., 1866.

5, 6. Viz.—(**5**) knife formed from a chip of greenstone, roughly shaped, $5\frac{1}{2}$ in. long, with portion of gum and kangaroo skin on the butt end, (**6**) axe of basalt, with handle of withe, 16 in. long, both formerly used by the natives of the Murray River—Dr John Dempster, 1873.

BU 5, 6.

7. Axe of Greenstone, $4 \times 2\frac{1}{2}$ in., polished on cutting edge, and fastened to handle of bent withe by sinews and a mass of gum, from Nareeb-Nareeb, Victoria—Charles Gray, 1875.

8. Slab of Sandstone, with the mark of a hand, cut out from the roof of a cave, at Browera Creek, Hawkesbury River, Sydney—Dr James Cox, 1878.

BU 9, 10. Boulders of Sandstone, 24 × 22 × 6 in. and 9 × 7 × 6 in., bearing grooves made by the natives in sharpening and polishing their stone axes, from Nareeb-Nareeb, Victoria—Charles Gray, 1879.

BU 8.

11. Axe of Greenstone, $3\frac{3}{4} \times 3\frac{1}{8}$ in., rudely formed, with polished cutting edge—Purchased 1886.

12. Axe of Basalt, $3\frac{5}{16} \times 3$ in., rudely formed and partly polished, from Geelong — Rev. James Morrison, 1890.

13. Axe of Greenstone, roughly chipped and polished, mounted in handle formed of bent withe —Deposited by Sir Alexander Christison, 1889.

[Besides the articles enumerated in the Catalogue, there are a number of boomerangs, clubs or waddy-waddies, womerahs or spear-throwers, and shields of three types, all of wood, from Australia, in the wall case next the entrance door.]

OCEANIC ISLANDS.

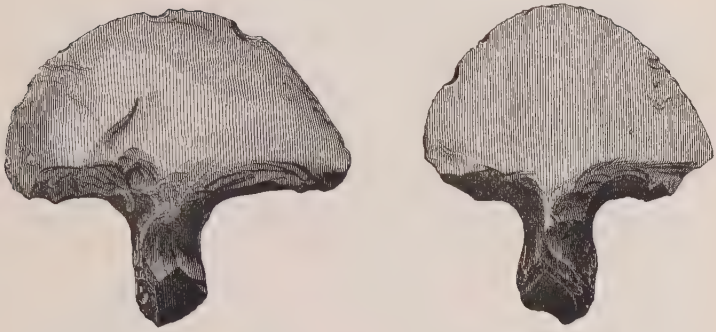
RECENT STONE IMPLEMENTS.

In Wall Case next Entrance Door on Second Floor.

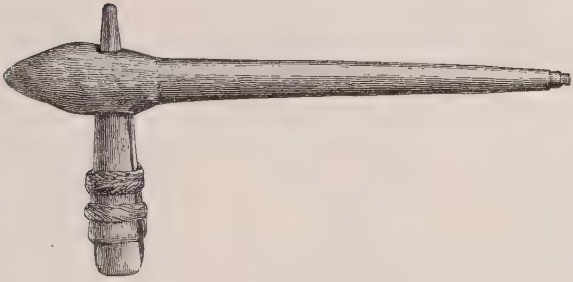
BV 1-78. Viz.—(**1**) stone adze, with carved wooden handle, from Mangaia, Harvey Islands; (**2**) axe of basalt, 6 × 2 in., polished, butt constricted for handle—A. H. Rhind, 1860; (**3, 4**) adzes in wooden handles, from Sandwich Islands—Mrs Hamilton, 1783; (**5**) small adze in wooden handle, from Tahiti—Lieut. J. N. Smart, 1829; (**6**) stone axe in handle, from New Caledonia — Wm. S. Young, 1861; (**7**) stone adze in handle, from New Caledonia — James Johnston, 1860; (**8**) stone implement in wooden handle, from Hawaii — Purchased 1879; (**9**) jade *Nbooet*, with corded handle, from New Caledonia — Purchased; (**10, 11**) axes of jadeite, finely polished, 6 × 4 in. and $3\frac{3}{4} \times 3$ in., from New Caledonia—Wm. S. Young, 1861; (**12**) axe of basalt, $6\frac{1}{2} \times 3\frac{1}{2}$ in.—Purchased 1874; (**13**) axe of jade, $5\frac{3}{4} \times 3\frac{3}{4}$ in., oval-shaped, from Sandalwood Island—Robert Carfrae, 1880; (**14, 15**) axes of jade, $6\frac{1}{2} \times 4$ in. and $4 \times 3\frac{1}{2}$ in., from New Caledonia—Robert Miln, 1881; (**16, 17**) obsidian spear-heads, from Easter

BV 6.

BV



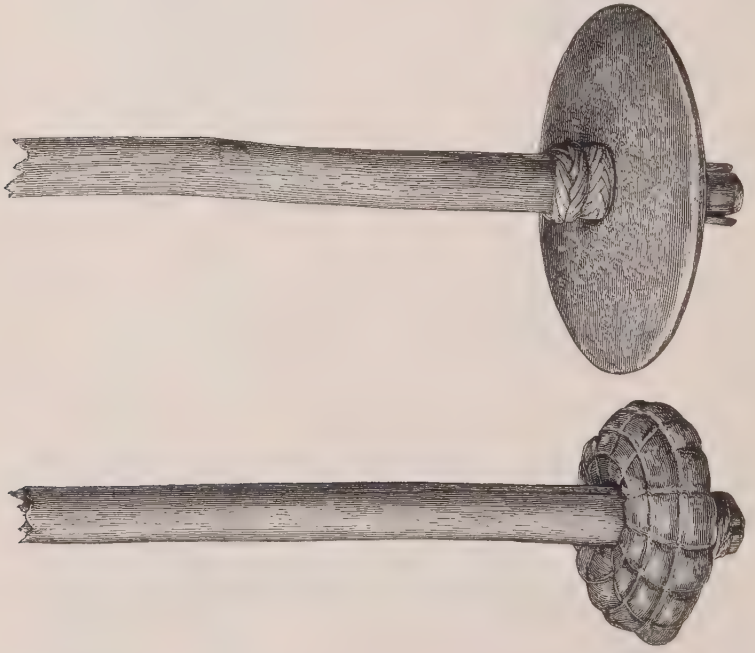
BV 16, 17.



BV 45.

BV 50.

BV Island—Lieut. C. M. Dundas, 1870 ; (**18**) knife made from sharks' teeth mounted in wooden handle, from Hawaii ; (**19–24**) articles brought home by Captain Cook on his last voyage, viz.—(**19**, **20**) bracelets of boars' tusks, from Hawaii ; (**21**) mallet of bone for beating *tapa* ; (**22**) large fish-hook with line attached ; (**23**, **24**) fish-hooks of bone and shell with lines attached—Sir John Pringle, 1781 ; (**25**, **26**) fish-hooks of bone and shell —W. A. Sutherland, 1853 ; (**27**) bracelet of boars' tusks strung together, from Hawaii—James Veacock, 1872 ; (**28**, **29**) spear-heads of obsidian fixed to shafts by bitumen, from Admiralty Islands, (**30–34**) spears, three with obsidian heads, from Admiralty Islands—Sir C. Wyville Thomson, 1876 ; (**35**, **36**) fish-hooks of bone and shell, backed with wood, with lines attached ; (**37**, **38**) fish-hooks of shell, said to have been found at Sanday, Orkney, but from the South Sea Islands—David Balfour, 1863 ;



BV 54, 55.

(**39–42**) bone implements ; (**43**, **44**) axe of jade in handle and stone implement in handle, hollowed on the striking face, both from New Guinea—John Murray, 1881 ; (**45–61**) implements, mostly from New Guinea, viz.—(**45–47**) axes of diorite, two in wooden sockets ; (**48–51**) adzes or *ilas* in handles ; (**52**, **53**) polished stone adzes without handles, $12 \times 5\frac{1}{2}$ in. and $5\frac{7}{8} \times 3$ in. ; (**54–56**) stone clubs with wooden handles, viz.—(**54**) of granite, $6\frac{1}{4}$ in. diameter ; (**55**) of greenstone, ornamented with incised lines, $3\frac{7}{8}$ in. diameter ; (**56**) of greenstone, $3\frac{1}{2}$ in. diameter ; (**57–60**) handles for implements ; (**61**) adze in handle—Purchased 1884 ; (**62**) ceremonial axe with carved handle from Mangaia—Purchased 1884 ; (**63**) axe of flinty slate, $5\frac{7}{8} \times 2\frac{7}{8}$ in., from New Guinea—Purchased 1885 ;

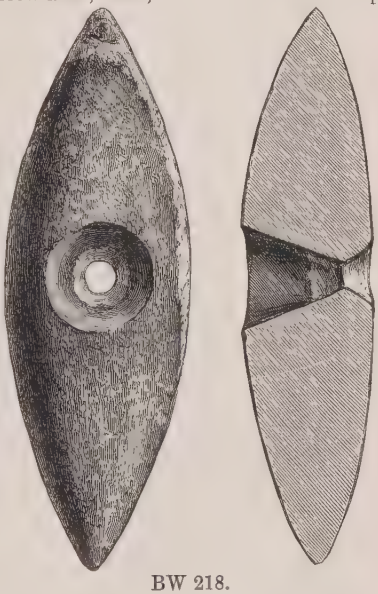
BV (**64**, **65**) axes, viz.—(**64**) of jade, 4 in. long, butt roughened ; (**65**) of volcanic stone, $6\frac{3}{4}$ in. long, butt roughened, probably from New Guinea—Purchased 1886 ; (**66**) axe of jade, $6 \times 3\frac{1}{8}$ in., polished, probably from New Guinea—Purchased 1886 ; (**67**) adze of lava, $3\frac{1}{2} \times 2$ in., partly polished ; (**68**) chisel of lava, 4 in. long ; (**69**) miniature adze of lava, $2\frac{1}{2} \times \frac{3}{4}$ in., all from Pitcairn Island—R. B. Æ. Macleod, 1887 ; (**70**) stone adze in handle, from Fiji Islands—R. B. Æ. Macleod, 1887 ; (**71**) adze of flinty slate, $6\frac{1}{2} \times 4\frac{1}{8}$ in., from New Guinea—Purchased 1887 ; (**72**) adze of ceremony with carved wooden handle, probably from Mangaia—Purchased 1887 ; (**73**) ring of shell, $3\frac{1}{2}$ in. diameter—Professor Duns, 1888 ; (**74**) adze of lava, $10\frac{5}{8} \times 3\frac{1}{4}$ in., finely polished, butt roughened, from Hawaii, Sandwich Islands—Purchased 1888 ; (**75**) implement resembling a pointed adze in wooden handle—Purchased 1888 ; (**76**, **77**) axes of jade, 6×3 in. and $4\frac{5}{8} \times 3\frac{1}{4}$ in., said to have been from Australia, but from South Sea Islands —Rev. Macintosh Mackay, 1864 ; (**78**) necklace of oblong beads of shell.

[In addition to the stone objects here catalogued, there are a large number of implements and weapons of wood and other articles from the various groups of islands in the Pacific. They include clubs of hard wood of various forms, bows, arrows tipped with barbed bone and hardwood points, large spears with fish-bone barbs, &c., combs of wood, shell ornaments, gourds for holding powdered lime and wooden spoons for lifting the same, &c.]

AFRICA.

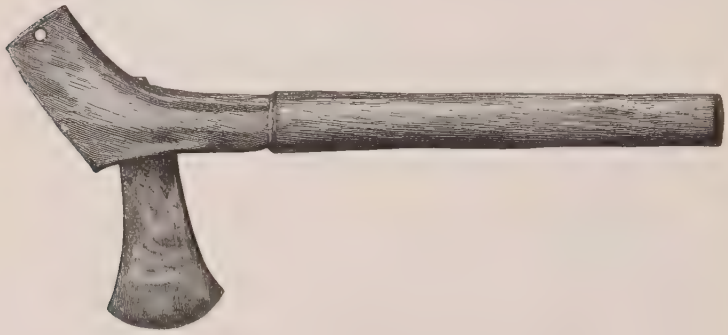
In Desk and Wall Cases, South Side of Second Floor.

BW 1–230. Viz.—(**1–203**) tanged arrow-head, saws, worked flakes and chips, and three triangular implements, from Heluan, Egypt —Arthur D. Morice, 1880, George Walpole, 1878, and Sir Herbert Maxwell, 1889; (**204–209**) digging stones used by the Bushmen of South Africa, viz.—(**204**) of claystone, $4\frac{1}{2}$ in. diameter, perforated — Alexander Laing, LL.D., 1883; (**205**) of sandstone, $4\frac{1}{2}$ in. diameter, perforated, (**206**) $4\frac{1}{2}$ in. diameter, $1\frac{1}{2}$ in. thick, perforated, (**207**) 4 in. diameter, partly perforated from each side, (**208**) half only, all from Cape l'Aguilhas—Charles Bell, 1875 ; (**209**) of sandstone, $4\frac{1}{2}$ in. diameter—Purchased 1885 ; (**210–216**) ivory rings of various sizes, from West Coast of Africa—E. Drummond Hay, 1828 ; D. Constable, 1828 ; (**217**) cast of small nephrite axe, inscribed with Gnostic formulæ in Greek, from Alexandria—Dr John Stuart, 1873 ; (**218**) double-pointed hammer of syenite, $4\frac{1}{2} \times 1\frac{1}{2}$



BW 218.

BW in., perforated, from Engadeh, Upper Egypt—deposited by Prof. W. Robertson Smith, 1879; (**219–228**) axes of greenstone from Secondi, Gold Coast, viz—(**219**) $3\frac{1}{8} \times 1\frac{1}{2}$ in., wedge-shaped; (**220**) $2\frac{1}{8} \times 1\frac{1}{2}$ in., partly polished; (**221**) $3\frac{3}{8} \times 1\frac{1}{2}$ in., triangular in section; (**222**) $2\frac{7}{8} \times 1\frac{3}{16}$ in., flattish on one side; (**223**) $3 \times 1\frac{1}{8}$ in., rudely formed; (**224**) $2\frac{3}{4} \times 1\frac{1}{8}$



Modern Axe of Iron in Wooden Handle from Africa.

in.; (**225**) $2\frac{7}{8} \times 1\frac{1}{4}$ in., butt pointed; (**226**) $2\frac{3}{8} \times 1\frac{1}{8}$ in., circular in section; (**227**) $1\frac{3}{4} \times 1$ in., circular in section; (**228**) $3\frac{3}{8} \times 1$ in., twelve sided—J. W. Rowland, 1885; (**229–230**) spearhead-shaped implements of stone, from East London, South Africa—Sir H. E. Maxwell, 1889; (**231**) iron axe shaped like the flat axes of Bronze Age type.

[In addition to the specimens here catalogued, there are a number of assegais, spears, shields of hide, clubs, iron axes in wooden handles, domestic utensils, tools, &c., of wood, idols, drums, &c., from various localities in Africa, on the walls and above the cases; and in the manuscript case a copy of the Four Gospels in Ethiopic, from Abyssinia.]

GREENLAND AND ESKIMO.

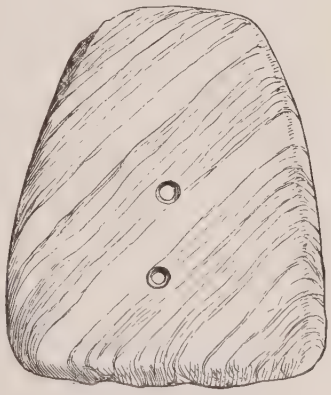
CB 1-69. Viz.—(**1-9**) implements, &c., found in Eskimo graves on Duck Island, North Greenland, viz.—(**1**) hook of reindeer horn, which had been used for suspending a stone lamp; (**2**) knife-handle of bone, $8\frac{7}{8}$ in. long, with slit $4\frac{1}{2}$ in. long on one side for the blade, perforated at end for suspension; (**3**) curved bone implement, $7\frac{1}{2}$ in. long, with flattened head; (**4**) bone drill of fire-raising apparatus, $5\frac{1}{2}$ in. long; (**5–9**) fire-raising apparatus and tinder-wood—Dr Robert Brown, 1869; (**10–29**) bone harpoon-heads, implements, &c., from Davis Straits—Alexander Bruce, 1860; (**30–33**) bone comb, two Eskimo forks, and marrow spoon, all from Repulse Bay, Melville Island—Dr Daniel Wilson, 1863; (**34, 36**) implements of bone and walrus ivory, viz.—(**34**) carved bow of walrus ivory, for a fire-raising apparatus, $11\frac{1}{2}$ in. long, carved on four sides with hunting-scenes, &c.; (**35**) harpoon-head of bone, barbed, $10\frac{3}{4}$ in. long, with iron point; (**36**) curved knife-like implement, $10\frac{3}{8}$ in. long, with small knob-head—Gilbert Goudie, 1881; (**37, 38**) beads of opal, found in an Eskimo grave—Dr Robert Brown, 1868; (**39, 43**) harpoon-heads of iron set in ivory, and two swivels—*Lerwick Collection;* (**44**) miniature lamp made by an Eskimo, and small copper tool used for adjusting the wick—Dr John Rae, 1885; (**45–50**) implements of bone, from Kingatak Island—*Sturrock Collection;* (**51–57**) three ivory pins, ivory needle, long tooth-comb, and two buttons

CB of ivory; (**58**) bone spatula, $7\frac{3}{4}$ in. long; (**59, 60**) harpoon-heads of ivory with iron points; (**61**) bone dress-fastener of cylindrical form, pierced with four holes; (**62**) part of large spear-shank of ivory; (**63**) scraper of green jasper from Kingatak Island; (**64**) large stone cooking lamp; (**65, 66**) Eskimo bow of walrus bone, and wooden arrow with iron head—all *Sturrock Collection;* (**67, 68**) bird spears, with projecting ivory barbs; (**69**) snow-knife of ivory, with ivory handle—Miss Grieve, 1886.

CANADA.

In Wall and Desk Cases, South Side, Second Floor.

CB 1-304. Viz.—(**1-15**) triangular-shaped arrow-heads of bluish cherty stone, from Horton, Norfolk County, Canada—James Wilson, 1873; (**16-25**) arrow and spear heads of chert, &c., from $1\frac{1}{2}$ to $4\frac{1}{4}$ in. long, and spear-head of slatestone, $4\frac{1}{4}$ in. long—Dr John Brown, 1875; (**26-34**) arrow and spear heads of chert and hornstone, from $2\frac{1}{4}$ to $4\frac{1}{4}$ in. long, from Norfolk County; (**35-39**) arrow-heads and spear-heads of chert, &c., from Talbot County, Waterford, Niagara, and Toronto—A. W. Buist, 1859, Dr Daniel Wilson, 1863, Rev. W. Gordon, 1874; (**40**) spearhead-like implement of reddish hornstone, $5\frac{7}{8} \times 3\frac{1}{2}$ in., from Lake Superior; (**41-43**) knives of chert, $2\frac{3}{4}$ to 3 in. long, irregular, triangular in form, from Niagara Falls—Rev. Dr Charles Rogers, 1881; (**44-58**) spear-heads and two knives of chert and hornstone, localities unknown; (**59**) oval, double-pointed implement of chert, 6 in. long, from Lake St John, Saguanay—Dr Daniel Wilson, 1863; (**60-69**) spear-heads of hornstone, &c., localities unknown; (**70-116**) arrow-heads of quartz, chert, &c., localities unknown; (**117-121**) spear-heads, one from London, two from Lake Michigan, one from Lake Erie, and one from Ontario; (**122-127**) oval-shaped discs of chert, &c., one from London; (**128-138**) arrow and spear heads of chert, &c., from Merigomish Harbour, Nova Scotia—Peter Millar, 1888; (**139-143**) spear-heads and two flakes; (**144-151**) arrow and spear heads, from Niagara; (**152-159**) arrow and spear heads of chert, from Simcoe County, knife from Grand River, &c.; (**160-165**) spear-head of slate, from Labrador (Dr Kohl), the other of chert, &c.; (**166**) polished ornament of veined slate, $4\frac{1}{2} \times 4$ in., with two small perforations, from Drummond, Lanark, Ontario—James Wilson, 1873; (**167-170**) implements of veined slate of oblong form, from Simcoe County, Grand River, Lake Erie, and Brantford—Dr Daniel Wilson, 1863; (**171-173**) edged implements of slate, probably from Labrador—Dr Daniel Wilson; (**174-180**) two whorls and two bead-like objects of stone, stone tube 4 in. long., from Talbot County, and implements of greenstone and claystone, probably whetstones—Dr Daniel Wilson; (**181-183**) stone totem, from Dryden Farm, Norfolk, bird-like object of polished serpentine, from Rideau Lake, County Lanark, and ornament of stone in shape of animal's head, from County Norfolk—Dr Daniel



CB 166.

CB Wilson; (**184**) richly carved pipe of blue slate, from Vancouver—Purchased 1886; (**185**) portion of similarly carved pipe from British Columbia—Purchased 1888; (**186**) pipe of red pipestone, $5\frac{5}{8}$ in. long, $3\frac{7}{8}$ in. broad, from Georgian Bay—Dr Daniel Wilson; (**187**) curiously and elaborately carved smoking pipe, from Queen Charlotte's Island—R. D. Davidson, 1862; (**188–190**) casts of stone pipe-heads—Dr Daniel Wilson; (**191–194**) carved pipe-heads of stone, two of which are inlaid with pewter, viz.—(**193**) from Lake Erie, and (**194**) from an Indian ossuary, near Burlington Bay—Dr Daniel Wilson; (**195**) Indian Chief's "Pipe of Peace"—H. M. Baird, 1861; (**196–202**) stone pipes, viz.—(**196**) steatite, for two smoking together; (**197**) with human head, from shore of Lake Couchiching; (**198**) bowl and stem in form of a curve; (**199**) with figure of lizard on the bowl; (**200, 201**) large Winnebaga pipes of red stone, inlaid with pewter; (**202**) Assinaboin pipe—Dr Daniel Wilson; (**203–224**) pipe-heads and pipe-stems of clay, &c., dug up in ossuaries and on sites of villages—Dr Daniel Wilson; (**225, 226**) tomahawk pipes, one inscribed "R. 1769," and with the blade inlaid with brass—Mrs Hamilton, 1783, and Mrs Gibson, 1858; (**227**) oblong implement of claystone, $4\frac{1}{2} \times 2\frac{1}{4}$ in., perforated—deposited by D. W. Kemp, 1888; (**228**) implement of dark slaty stone, 13 in. long, tapering to both ends—Dr J. Brown, 1875; (**229**) chisel-shaped adze of grey granite, $8\frac{3}{4}$ in. long, grooved at top one side—William Robertson, 1885; (**230–263**) axes and gouges; (**230**) of flinty slate, $9\frac{1}{4} \times 2\frac{3}{8}$ in., peculiarly shaped, from North-West Coast; (**231**) of greenstone, $8 \times 2\frac{1}{4}$ in., from Labrador; (**232**) of basalt, $7\frac{3}{4} \times 2\frac{1}{4}$ in., polished, from Drummond, Ontario—James Wilson, 1873; (**233**) of granite, $4 \times 3\frac{1}{4}$ in., constricted for handle, from Ontario—R. Hutchison, 1878; (**234**) of micaceous schist, 5×2 in., from Niagara—Rev. Dr Charles Rogers, 1881; (**235**) of fine felstone, $8\frac{1}{4} \times 1\frac{3}{4}$ in., cylindrical and chisel-shaped, polished, from Woodstock, Oxford Co.; (**236**) of greenstone, $8\frac{1}{2} \times 2\frac{1}{4}$ in.—Purchased 1882; (**237**) of sandstone, $4\frac{1}{2} \times 2$ in., flat on one face, from Brantford—Dr D. Wilson; (**238**) of sandstone, 7×2 in., from Labrador; (**239**) of greenstone, $8\frac{3}{4} \times 4$ in., grooved, the butt pointed; (**240**) of porphyry, $2\frac{7}{8} \times 2$ in.; (**241**) of greenstone, $3\frac{1}{2} \times 1\frac{1}{2}$ in., wedge-shaped; (**242**) of greenstone, cylindrical, $4\frac{1}{2} \times 2$ in., grooved; (**243**) of greenstone, $5 \times 3\frac{1}{4}$ in., grooved—both by Hon. Arthur H. Gordon, 1865, (**244**) of greenstone, $4 \times 2\frac{1}{4}$ in., butt imperfect—A. H. Rhind; (**245**) of greenstone, chisel-shaped, $4 \times 1\frac{3}{8}$ in.; (**246**) of greenstone, $4 \times 1\frac{1}{2}$ in., flat on one side; (**247**) of granite, $3\frac{3}{8} \times 1\frac{5}{8}$ in.; (**248**) of greenstone, $4\frac{1}{4} \times 1\frac{3}{4}$ in.; (**249**) gouge of felstone, $5\frac{1}{2} \times 1\frac{1}{2}$ in., polished, butt imperfect—J. Huie, 1850; (**250**) gouge of greenstone, $4\frac{1}{2}$ in. long, from Lanark, Ontario—James Wilson, 1873; (**251**) gouge of slaty-stone, $7\frac{1}{4} \times 2$ in., surface roughly pecked; (**252**) axe of greenstone, $6 \times 2\frac{1}{2}$ in.; (**253**) of granite, cylindrical-shaped, $4\frac{1}{2} \times 2$ in.—both by Dr J. Brown, 1875; (**254**) of sandstone, $4\frac{1}{2} \times 1\frac{1}{4}$ in., chisel-shaped; (**255**) of sandstone, $4\frac{1}{2} \times 1\frac{3}{4}$ in., chisel-shaped; (**256**) of greenstone, $4\frac{3}{4} \times 2$ in., flat on one face—all three from Thornhill; (**257**) portion of axe, from York County; (**258**) of granite, plano-convex in section, $7\frac{1}{4} \times 2\frac{3}{8}$ in.; (**259**) of greenstone, $5\frac{1}{2} \times 2$ in., finely polished, from Bryden; (**260**) of greenstone, $5 \times 2\frac{1}{4}$ in., flat on one face; (**261**) of greenstone, $3\frac{3}{4} \times 2\frac{1}{2}$ in., gouge-shaped, imperfect; (**262**) of greenstone, $3\frac{1}{4} \times 1\frac{3}{4}$ in.; (**263**) of granite, $3\frac{3}{4} \times 2$ in., from Norfolk County—Dr D. Wilson; (**264**) rude animal's head in stone, from Indian grave, Lake Huron—*ibid.*; (**265, 266**) water-worn pebbles of sandstone, 4 and $4\frac{1}{2}$ in. long, each hollowed on face; (**267**) small block of sandstone, with three pecked hollows—Dr D. Wilson; (**268**) circular stone disc, $3\frac{1}{2}$ in. diameter, perforated—Dr J. Brown, 1875; (**269**) hammer-stone of quartzite, $3\frac{1}{4}$ in. diameter; (**270**) pestle of greenstone, 7 in. high, from

CB 250.

CB Vancouver's Island—*Petrie Collection*, Purchased 1876; (**271**) axe of greenstone, $5\frac{5}{8} \times 1\frac{7}{8}$ in., roughly formed, from Hull Mound, Canada East—Mrs Macleod Powell, 1885; (**272**) stone socket for the drill head of a drill bow; (**273**) pendant or plummet of stone—Dr D. Wilson; (**274**) boat-shaped ornament of veined slate, $5\frac{1}{2}$ in. long, with two perforations—Dr J. Brown, 1875; (**275–277**) disc made from portion of human skull, ring of bone and part of a bracelet of bone, from Indian grave—Dr D. Wilson; (**278, 279**) barbed bone harpoon head and sheath formed from a tooth, from Merigomish Harbour, Pictou, Nova Scotia—Peter Millar, 1888; (**280, 281**) axes, one of slatestone, $3\frac{1}{2} \times 1\frac{3}{8}$ in., the other of greenstone, $3\frac{1}{2} \times 1\frac{7}{16}$ in., imperfect at butt, probably from Labrador—James Chisholm, 1888; (**282–299**) bone pins and bodkins, from Indian graves—Dr D. Wilson and Dr J. Brown; (**300**) adze of sandstone, $6\frac{3}{4} \times 1\frac{3}{4}$ in., rudely formed, probably from Labrador—Purchased 1888; (**301–304**) axes of greenstone, of chisel form, all partly polished, viz.—(**301**) $5\frac{1}{8} \times 1\frac{1}{2}$ in.; (**302**) $5\frac{1}{2} \times 1\frac{3}{4}$ in.; (**303**) $6\frac{3}{4} \times 2\frac{1}{4}$ in.; (**304**) of adze-shape, $6\frac{7}{8} \times 2$ in.—Purchased 1889.

[Two pairs of Snowshoes, La Crosse Bat, &c., from Canada above Wall Case.]

UNITED STATES OF NORTH AMERICA.

In Wall and Desk Cases, South Side of Second Floor.

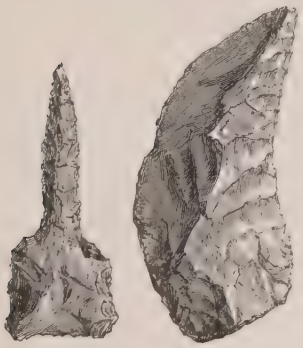
CC 1–918. Viz.—(**1–20**) arrow and spear heads, viz.—(**1–11**) ten spear-heads of cherty stone, from Georgia, and arrow-head, from West Virginia; (**12–20**) seven arrow-heads of white quartz from Georgia, Virginia, one from Brown County, Ohio, and one with bevelled edges from Bedford, Indiana—Thomas W. U. Robinson, 1880; (**21–81**) arrow and spear heads, viz.—(**21–57**) arrow-heads of white and brownish quartz; (**58–65**) seven arrow-heads and one large spear-head; (**66–81**) five spear-heads of quartz, a Pai Ute arrow-head formed from small steel knife-blade, eight arrow-heads of hornstone, and two rude arrow-heads of blue slag made by the donor—the greater number of the specimens were collected in the neighbourhood of Washington, D.C., the remainder from Kentucky—J. T. Pickett, 1878; (**82–89**) arrow and spear heads of cherty stone, mostly rude, found at Amoskay Falls, New Hampshire—Dr Daniel Wilson, 1863; (**90–98**) arrow and spear heads, viz.—five from Sumner County, Tennessee, and four from Ohio—Dr G. S. Blackie, 1875, and T. B. Johnston, 1883; (**99–104**) four arrow and spear heads found in New York State, a spear-head of greenish cherty stone, $4\frac{1}{4}$ in. long, from Virginia, and spear-head with bevelled edges, from Jackson on the Mississippi—Sir W. C. Trevelyan, 1850, Dr Bovell, and James Johnstone, 1852; (**105–110**) three arrow-heads of white quartz, from Nebraska, spear-head from a mound in Mississippi, another from Georgia, and the third from Alabama—W. Ivison Macadam, 1887, and E. W. Dallas, 1852; (**129–201**) miscellaneous arrow and spear heads, mostly of rude form, and all without localities—Purchased 1888, Sir Herbert Eustace Maxwell, Bart., 1889, &c.; (**202–206**) spear-heads, viz.—(**202**) of chert, imperfect at the base, (**203**) of cherty stone, with fine surface chipping, both from Utah—W. Scott Elliot, 1889; (**204**) of rude form, from Mackinaw, Lake Michigan—Dr W. M. Buchanan, 1887; (**205–206**) spear-head and arrow-head, both from Wisconsin—Purchased 1888; (**207–216**) five small spear-heads, three of which imperfect, two worked implements, and three flakes, all from Missouri—D. S. Littlejohn, 1885; (**217**) oblong pointed implement of whitish chert, $7 \times 2\frac{3}{8}$ in., from Pennsylvania; (**218, 219**) oblong pointed implements of black cherty stone, $7\frac{3}{4} \times 2$ in., and $6\frac{1}{4} \times 2\frac{1}{2}$ in., both from Long Island—Dr Samuel Mitchell, 1802; (**220**) oval-shaped implements

CC of hornstone, from Lewiston, New York State—Dr Daniel Wilson, 1875; (**221**) ovate roundish implement of hornstone, $4\frac{5}{8} \times 3\frac{3}{4}$ in., from Delaware—Purchased 1888; (**222–224**) oval-shaped implement of quartzite, $4\frac{1}{16} \times 2\frac{7}{16}$ in.—Purchased 1888; and two small oval-pointed implements of chert, from Pennsylvania; (**225–227**) oval-shaped pointed implements, viz.—one of chert, from Ohio—Thomas Allen, 1823; one of flint—Sir Herbert Eustace Maxwell, Bart., 1889; and a larger one of quartzite; (**228–230**) oblong pointed implements of chert and hornstone—Sir Herbert Eustace Maxwell, Bart., M.P., 1889; (**231–798**) large collection of arrow and

CC 399, 434, 780.

spear-heads, knives, scrapers, &c., of chert, hornstone, quartz, &c., found near Huntsville, Alabama—James Brodie, 1889; (**799–806**) axes, viz.—(**799**) of hard gritty sandstone, $7\frac{1}{4} \times 3\frac{3}{8}$ in., with deep groove round three sides, from New York State—Purchased 1849; (**800**) of weathered gneiss, $5\frac{7}{8} \times 3\frac{7}{16}$ in., grooved all round, from New York State—Robert Carfrae; (**801**) of granite, $3\frac{11}{16} \times 2\frac{7}{16}$ in., grooved all round and polished, from Untica Station—A. Craig, 1854; (**802**) of granitic stone, $4\frac{13}{16} \times 3\frac{1}{4}$ in., grooved all round, finely polished—Rev. John Struthers, 1889; (**803**) of hematite, $2 \times 1\frac{5}{16}$ in., slightly imperfect at cutting edge, finely polished, from Ohio; (**804**) of greenish granitic stone, $3\frac{3}{16} \times 2\frac{3}{16}$ in., polished, slightly imperfect on cutting edge, from Ohio; (**805**) adze or gouge shaped axe, $5\frac{1}{2} \times 3$ in., with perforation $1\frac{7}{16}$ in. diameter through the flat face, the surface roughly pecked; (**806**) grooved stone axe, said to have been dug up at Kirkmahoe, Dumfriesshire, Scotland, but undoubtedly from America—James Mackenzie, 1892; (**807–810**) articles from an Indian grave in Kentucky, viz.—(**807**) axe of granite, $4\frac{7}{16} \times 2\frac{5}{16}$ in., polished cutting edge, butt roughly truncated; (**808**) wide-mouthed, bowl-shaped vessel of clay, $2\frac{3}{4} \times 3\frac{5}{8}$ in., with nine loops round the exterior of brim; (**809**) round-bottomed vessel of clay, $3\frac{3}{8} \times 3\frac{5}{8}$ in., contracting at the mouth, which has three perforations on one side and two on the other; (**810**) shell spoon, made (apparently) from the left valve of *Unio ovatus*—Purchased 1886; (**811**) axe of gneiss, $6\frac{7}{8} \times 3\frac{11}{16}$ in., with deep groove, found near Charleston, South Carolina—Purchased 1886; (**812**) ring of copper and necklet of small beads of vitreous paste, found on a Chinook mummy, from Oregon—Dr Daniel Wilson, 1863; (**813–817**) arrows with flint and chalcedony heads, from California, viz.—(**813**) presented by Peter Muir, 1861; (**814–817**) Purchased at Johnstone's Sale, 1869; (**818**) irregular-shaped block of sandstone, $7\frac{3}{16} \times 4\frac{7}{16} \times 2\frac{7}{8}$ in., with two smoothed hollows, each $1\frac{1}{4}$ in. diameter, on one side and one on the other, from Ohio—Dr Daniel Wilson, 1863; (**819–822**) implements of stone, viz.—(**819**) crescent-shaped implement of brown slatestone resembling a double pickaxe, 6 in. long, round in section, and with circular perforation through the centre, probably from the Mississippi Valley; (**820**) of veined slate, shaped like an ordinary clay-pipe with perforated head; (**821**) of micaceous stone, $3\frac{3}{4}$ in. long, circular in section, with groove round the middle, (**822**) of

CC micaceous sandstone, 4 in. long, $1\frac{1}{8}$ in. in greatest diameter, both from Amoskay Falls, New Hampshire—Dr Daniel Wilson, 1863; (**823–825**) hammers, each a large pebble of greenstone with a groove round the middle, two from the ancient copper-mines of Arizona—Sir Herbert Eustace Maxwell, Bart, M.P., 1889; (**826–830**) pottery, from mounds in the Mississippi Valley, viz.—(**826**) bowl-shaped vessel, $3 \times 4\frac{3}{4}$ in., with small projection on each side to serve as handle; (**827**) round-bottomed dish, $2\frac{3}{4}$ in. high, $5\frac{1}{4}$ in. diameter, with handle on one side in the form of a bird's head; (**828**) cup, $2\frac{3}{4}$ in. high, $3\frac{3}{8}$ in. diameter, the mouth slightly expanded, loop handle on one side; (**829**) vase, $5\frac{1}{2} \times 5\frac{5}{16}$ in., the mouth $3\frac{1}{4}$ in. diameter, ornamented on one side with rude resemblance of human face; (**830**) vase-shaped, $5\frac{3}{4} \times 5\frac{3}{4}$ in. and 4 in. across the lip—Purchased 1889; (**831**) cast of a curiously shaped human head with broad, flat face, the original probably from Ohio or Tennessee—Purchased 1889; (**832–838**) arrow-heads of obsidian, probably from California, viz.—(**832–835**) of small size, one of chert, of triangular form, each slightly indented on each side near the base—Purchased 1890; (**836–838**) with hollow bases, one with deep side notches—*Sturrock Collection;* (**839–852**) miscellaneous stone implements, from North Alabama, viz.—(**839**) pestle of hard greenstone, $3\frac{15}{16}$ in. high, with circular face 3 in. diameter; (**840**) anvil-stone of quartzite-sandstone, $3\frac{7}{8} \times 2\frac{5}{8} \times 1\frac{3}{8}$ in., with indented hollow in the centre of each face; (**841**) oval, water-worn pebble of quartzite-sandstone, $4\frac{1}{4} \times 3\frac{1}{2}$ in., ground flat on one face, which is depressed in the centre; (**842**) oval-shaped pebble of quartzite-sandstone, $5\frac{9}{16} \times 3\frac{1}{8}$ in., roughly smoothed on one face; (**843–845**) water-worn pebbles of quartzite-sandstone which have been used as hammer-stones; (**846**) implement of hornstone, $4\frac{3}{4} \times 2\frac{1}{4}$ in., roughly chipped; (**847**) similar implement, $3\frac{11}{16} \times 2\frac{9}{16}$ in.; (**848**) implement of kaolin, tongue-shaped, $4\frac{1}{16} \times 2\frac{5}{16}$ in., roughly chipped; (**849**) implement of chert, $3\frac{1}{4} \times 1\frac{1}{2}$ in., worked to scraper-like edge at each end; (**850**) axe of claystone, $4\frac{1}{2} \times 2\frac{1}{4}$ in., cutting end polished, butt roughened; (**851**) axe of claystone, $8\frac{1}{4} \times 3$ in., cutting edge partly polished, the remaining surface roughly pecked; (**852**) axe of greenstone, $5\frac{1}{4} \times 2\frac{3}{8}$ in., polished, butt end imperfect—James Brodie, 1889, 1890; (**853, 854**) roughly-chipped implements, said to be from the glacial drift at Golden, Colorado, viz.—(**853**) of jasper, 3×2 in.; (**854**) of quartzite, $1\frac{7}{8} \times 1\frac{1}{4}$ in.—James Brodie, 1890; (**855–875**) spear-heads, knives, &c., of chert of various forms, from North Alabama—James Brodie, 1890, 1891; (**876–879**) three large spear-heads of chert and grooved axe of greenstone, $5\frac{1}{2} \times 4\frac{1}{8}$ in., from Minnesota—Patrick Dudgeon, 1891; (**880**) portion of rope of feathers, from a cliff-dwelling in Utah—A. G. Richmond, 1886; (**881–891**) arrow and spear heads of chert, from the south-eastern United States—Purchased 1892; (**892–899**) arrow-heads of chert, &c., rude and imperfect; (**900–902**) arrow-heads of obsidian, probably from California—Purchased 1891; (**903**) axe of copper, $10 \times 2\frac{1}{2}$ in., found near ancient copper-mine of Ontonagon, Lake Superior—Dr Daniel Wilson, 1863; (**904–918**) arrow and spear heads, &c., from Missouri—R. Scott Skirving, 1892.



CC 570, 776.

MEXICO, &c.

In Wall and Desk Cases, South Side of Second Floor.

CD 1–174. Viz.—(**1–21**) arrow-heads and spear-heads of obsidian—G. F. Hay, 1832, Kenmure Maitland, 1866, Robert Miln, 1881; (**22–64**) implements of obsidian, viz.—(**22–27**) large cores, &c.; (**28–35**) scrapers and flakes; (**36–47**) flakes, &c.—Kenmure Maitland, 1866, R. Miln, 1881; (**48–64**) oblong implements or flakes—Sir C. Wyville Thomson, 1872; (**65–77**) large beads of serpentine—Kenmure Maitland, 1866; (**78**) image of stone, resembling a human figure—Presented 1872; (**79**) polished implement of pink-coloured pebble, $1\frac{1}{2} \times \frac{3}{4}$ in.—R. Miln, 1881; (**80**) ornamented whorl or button—Kenmure Maitland, 1866; (**81**) implement of dark slate, $2\frac{1}{2}$ in. long, polished—A. H. Rhind, 1860; (**82**) irregularly-shaped piece of obsidian, $2\frac{1}{2}$ in. long, partly resembling a human figure—K. Maitland, 1866; (**83**) axe of claystone, $4\frac{3}{4} \times 2$ in.—Purchased 1874; (**84**) axe of basalt, $2 \times 1\frac{1}{2}$ in., polished—A. H. Rhind, 1860; (**85–86**) stones of a pot quern, the lower one ornamented with the figure of a human face and with floral patterns—E. W. A. D. Hay, 1828; (**87**) a rude and ancient idol of a naked human male figure in fine-grained greenstone, $18\frac{1}{2}$ in. long, head large, mouth open, the fingers and toes indicated by short incised lines—K. Maitland, 1866; (**88–98**) four cores of obsidian, five rudely-formed arrow or spear heads, and two flakes—Purchased 1887; (**99–121**) beads of greenish stone and irregular hexagonal-shaped pendant of dark greenstone, probably from Mexico—Robert Miln, 1888; (**122–125**) stone chairs with sculptured bases; (**126**) modern cast of the Mexican calendar stone; (**127**) cast, natural size of head in centre of calendar stone; (**128–132**) vessels of red pottery—Purchased; (**133–134**) small idol figures in terra-cotta—James Miln; (**135**) small cup of terra-cotta, from Chiriqui; (**136–164**) small terra-cotta human heads, &c.; (**165**) head of warrior in burned clay, found in a tumulus in the Bay of Honduras; (**166**) cast of head of victim between the jaws of the colossal serpent, found at Dominican Convent, Mexico; (**167, 168**) casts of heads of two colossal serpent-shaped emblems; (**169, 170**) casts of large flint implements, from a cave at Honduras Bay; (**171–174**) casts of curious flint implements, found near North River, between Yucatan and Honduras—Purchased 1891.

SOUTH AMERICA.

In Wall and Desk Cases, South Side of Second Floor.

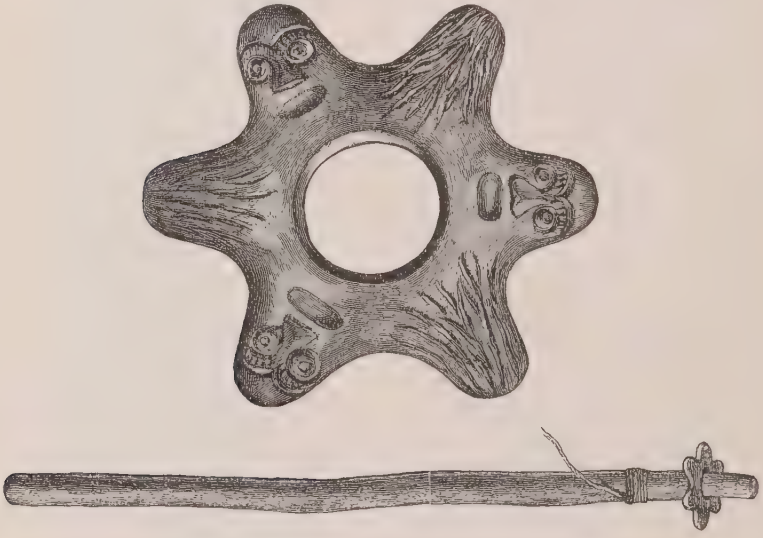
CE 1–129. Viz.—(**1**) arrow-head of chalcedony, and eye of a cuttle-fish, found in a Peruvian grave—T. B. Johnston, 1849; (**2–5**) from the Argentine Republic, viz.—(**2**) flat axe-head of copper, $2 \times 1\frac{1}{4} \times \frac{1}{4}$ in.; (**3**) tanged implement of bronze, 4 in. long; (**4**) thin blade of bronze, $2\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{16}$ in., with a round handle $\frac{1}{4}$ in. thick and 4 in. long, terminating in an animal's head; (**5**) axe of greenstone, 6×3 in., grooved round the upper part—Mrs S. Webster, 1880; (**6**) digging-stone of greenstone, $5\frac{1}{2} \times 3$ in., with perforation $2\frac{1}{2}$ in. wide at the surface, from Chili—James S. Anderson, 1880; (**7–9**) stone balls of "bolas," from $1\frac{1}{2}$ to 2 in. diameter, found in a shell-heap at the Straits of Magellan—Sir C. Wyville Thomson, 1877; (**10**) Indian *Boleadores* of three grooved stone balls, covered with hide, attached to each other by twisted strips of hide, 3 feet in length, from Buenos Ayres—Purchased 1882; (**11, 12**) stone implements, from tomb at Pisco, Peru, viz.—(**11**) perforated digging-stone, $3\frac{1}{2}$ in. diameter; (**12**) ball, $1\frac{1}{2}$ in. diameter—Dr Archibald Smith, 1863; (**13**) arrow-head of chalcedony, found on the bank of the river Santa Lucia, Uraguay—W. D. Westland, 1882; (**14**) conical stone pestle, from Brazil—H. E. Hunt, 1887; (**15**)

CE bolas, mounted, two of the balls of lead—Sir Herbert Eustace Maxwell, Bart., 1889; (**16–19**) implements from Chili, viz.—(**16**) oval spear-head of chalcedony; (**17, 18**) portion of worked implement and flake of chalcedony; (**19**) arrow-head of flint—Sir Herbert Eustace Maxwell, 1889; (**20**) fac-simile of scraper in handle as used in Tierra del Fuego — E. Lovett, 1890; (**21, 22**) pottery, from South America, viz.—(**21**) conical bowl-shaped vessel, 3 in. high $\times 7\frac{5}{8}$ in. across; (**22**) jar-shaped vessel, $9\frac{1}{2}$ in. high $\times 8\frac{1}{2}$ in. in widest diameter —Purchased 1888; (**23–31**) pottery from New Granada, viz.—(**23**) stand for dish (?), 8 in. high $\times 5\frac{1}{2}$ in. diameter at each end, with rudely painted patterns in white on reddish ground; (**24**) globular dish 4 in. high × 6 in. in diameter; (**25**) dish, shallow, open, $4\frac{5}{8}$ in. high $\times 6\frac{1}{4}$ in. in diameter, with a base, and ornamented with three small projecting heads; (**26**) globular vessel, 6 in. high, with out-curving lip, with painted black patterns on a white ground; (**27–29**) three deep saucer-like dishes, $4\frac{7}{8}$ in., $6\frac{1}{4}$ in., and $7\frac{1}{8}$ in. in diameter across the mouth; (**30**) dish, 3 in. high $\times 5\frac{5}{8}$ in. in diameter across the top, painted with patterns in red; (**31**) of reddish ware, 4 in. high × 5 in. in diameter, contracting at the mouth—Purchased 1888 and 1889; (**32–59**) twenty-seven arrow-heads of stone and point of copper fish-hook, from Peru—Purchased 1890; (**60–63**) pair of plaited slings and pair of tassels of woven fabric, from Pachacamach, Peru—R. B. Æ. Macleod, 1887; (**64**) shrunk human head, from Pastaza, prepared by the Jivaros Indians of Ecuador — Dr R. H. Gunning, 1886; (**65**) cylinder of jadeite, $1\frac{1}{8}$ in. long, pierced longitudinally,

CE 64.

CE formerly used as a charm, from Brazil—Dr R. H. Gunning, 1891; (**66**) harpoon-head of wood with bronze barb, from Arica, Peru; (**67–123**) collection of bottles, jars, vases, &c. of black and red pottery, some of grotesque forms and others ornamented in relief, from Peru, Brazil, and Granada—Dr Arch. Smith, J. G. Craig, Purchased, &c.; (**124**) small terra-cotta with moustache and beard painted in black, from Peru; (**125**) mace-head of bronze or copper in form of a five-rayed star, imperfect, from Peru; (**126**) mace-head of copper, in form of six-rayed star, each point carved in form of human face, three on each side, mounted on a wooden handle 29 in. long, from Peru—D. O. Croall, 1878; (**127**) specimens of woven cotton cloth

CE 65.



CE 126.

with different patterns, from Peruvian tombs; (**128**) baskets of reeds containing spindles of wood, balls of thread, &c., from a tomb in Peru—Capt. John Ferguson, 1827; (**129**) canes covered with engraved ornament worn in the ear by natives of Paraguay.

[On the walls are arrows with hardwood heads, bows, square-shaped clubs of hardwood, &c., from British Guiana and elsewhere in South America.]

WEST INDIAN ISLANDS.

In Wall and Desk Cases, South Side of Second Floor.

CF 1-26. Viz.—(**1**) axe of green quartz-like stone, $7\frac{5}{16} \times 3\frac{3}{16}$ in., finely formed and polished, probably from the West Indies—*Sturrock Collection*, 1889; (**2**) axe of weathered felstone, $2\frac{7}{8} \times 2$ in., polished, grooved round the upper part, cutting edge imperfect, probably from the West Indies—*Sim Collection;* (**3, 4**) axes of greenstone, each with ear-like projections on

CF upper part; (**3**) $7\frac{1}{4} \times 6\frac{1}{4}$ in., flattish on each face; (**4**) $4\frac{1}{2} \times 3$ in.—A. Henry Rhind, 1860; (**6**) axe of greenstone, $5 \times 3\frac{1}{4}$ in., with ear-like projections on upper part, grooved for handle; (**7**) axe of greenstone, $5 \times 2\frac{3}{4}$ in., flattish, oval in section, cutting edge imperfect, from Jamaica—Charles Rampini, 1879; (**8–17**) axes of shell of *Strombus gigas;* (**8–10**) presented by Dr Daniel Wilson, 1863; (**11–16**) by Sir Walter Elliot, 1883; (**17**) by Allan Mathewson; (**18**) axe of greenish jade-like stone, $5\frac{1}{4} \times 2\frac{1}{2}$ in., butt pointed,

CF 25, 26.

from Jamaica—Miss Cooper, 1884; (**19–26**) axes of shell of *Strombus gigas,* and small chisel of the same, from Barbadoes—Professor A. H. Wright, 1888.

27. Axe of Greenstone, $5\frac{7}{8} \times 4\frac{1}{8}$ in., polished, projecting ears on upper part, imperfect on one face at the butt, from St Vincent—*Sturrock Collection.*

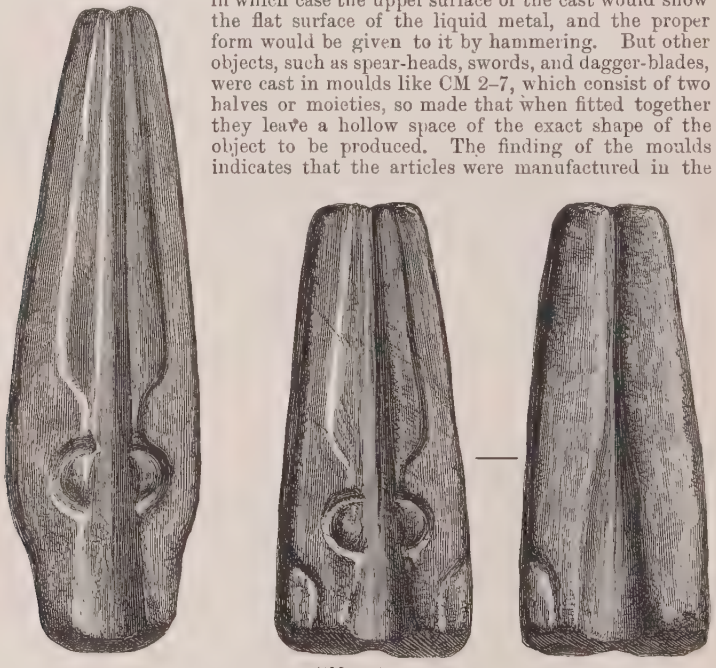
28–55. Implements of Stone and Shell from the West Indies, collected by the late Sir Thomas Graham Briggs, viz.—(**28–31**) axes of shell of *Strombus gigas;* (**32**) axe of jadeite, $2\frac{3}{8} \times 1\frac{1}{4}$ in., cutting edge polished; (**33**) of fine grained greenish stone, $2\frac{7}{8} \times 1\frac{9}{16}$ in., finely polished, butt irregular in form; (**34**) of greenstone, $3\frac{7}{8} \times 1\frac{13}{16}$ in., polished, butt truncated; (**35**) of porphyritic stone, $5 \times 1\frac{7}{8}$ in., polished, plano-convex in section, cutting edge fractured; (**36**) of slatestone, $5\frac{1}{4} \times 2\frac{3}{8}$ in., flat on the under side; (**37**) of felstone, weathered, $5\frac{1}{8} \times 2\frac{3}{4}$ in., adze-shaped; (**38**) of greenstone, $3\frac{1}{16} \times 2\frac{1}{16}$ in., butt and cutting edge imperfect; (**39**) of greenstone $4\frac{7}{8} \times 2\frac{7}{8}$ in., contracted at top; (**40**) of greenstone, $4\frac{3}{4} \times 3\frac{1}{2}$ in., polished, neck contracted, butt flat topped; (**41**) of basalt, $6\frac{1}{16} \times 3\frac{5}{16}$ in., with projecting ears on top, cutting edge imperfect; (**42**) of greenstone, $6\frac{1}{8} \times 4\frac{1}{16}$ in., imperfect on one side, with projecting ears; (**43**) of basalt, $6\frac{1}{4} \times 3\frac{7}{8}$ in., with projecting ears, butt imperfect; (**44**) of basalt, $6\frac{1}{4} \times 4\frac{1}{8}$ in., butt and

CF cutting edge imperfect; (**45**) of greenstone, $6\frac{1}{8} \times 4\frac{3}{16}$ in., cutting edge imperfect; (**46**) of basalt, $7\frac{3}{4} \times 4\frac{9}{16}$ in., cutting edge and one ear imperfect; (**47**) of basalt, $8\frac{1}{8} \times 5\frac{3}{4}$ in., narrowing to top, one ear and cutting edge imperfect; (**48**) of slaty stone, $8\frac{1}{2} \times 5\frac{3}{16}$ in., much fractured; (**49**) butt-end only, with turned down ears; (**50–52**) conical pestle-stones of greenstone; (**53**) half of a long implement pointed at one end, partly polished; (**54**) oblong implement of claystone, $7\frac{7}{8} \times 3\frac{7}{8}$ in., plano-convex in section; (**55**) implement apparently formed from a natural concretion in form of large horse-shoe—Purchased 1890.

MOULDS FOR CASTING BRONZE IMPLEMENTS.

In Wall Case, between Archways in centre of First Floor, South Side.

[The moulds in which the implements and weapons of the Bronze Age were cast were generally made of stone, though moulds of loam or clay were also used. Sometimes the moulds were single (like those for flat axes CM 18), in which case the upper surface of the cast would show the flat surface of the liquid metal, and the proper form would be given to it by hammering. But other objects, such as spear-heads, swords, and dagger-blades, were cast in moulds like CM 2–7, which consist of two halves or moieties, so made that when fitted together they leave a hollow space of the exact shape of the object to be produced. The finding of the moulds indicates that the articles were manufactured in the



CM 2, 7.

country. Moulds for flat axes, socketed axes, spear-heads of different varieties, and rings of bronze, have been found in Scotland. Sword moulds have not been found in Scotland. They are very rare, only one for a leaf-shaped sword and two for rapier-shaped blades being known in Great Britain.]

CM 1. Mould for casting two Flat Axes of different sizes, found on the Borough Moor, Kintore, Aberdeenshire—*Watt Collection*, Purchased 1865.

CM 18.

2–7. Two Pairs of Moulds for Spear-heads (found with the stone axes AF 67, 68), and castings in lead (4 and 7) made from them—Dr Arthur Mitchell, 1864.

CM 8. Mould for casting Implements of unknown use, from Alford, Aberdeenshire—William Anderson, 1863.

9. Mould for casting Rings, 2½ in. diameter, from Kilmailie, Inverness-shire—Rev. Archibald Clark, 1871.

10. 10A. Original and Cast of Mould for Bronze Implements, from Trochrigg, Ayrshire—Miss Brown, 1891.

11-16. Casts of Two Pairs of Moulds for Socketed Axes, found in the parish of Rosskeen, Ross-shire (Nos. 13, 14 are plaster casts of the axes which the moulds were intended to make in bronze).

17. Mould for casting Implements of unknown use, from Benachie, Aberdeenshire—Purchased 1885.

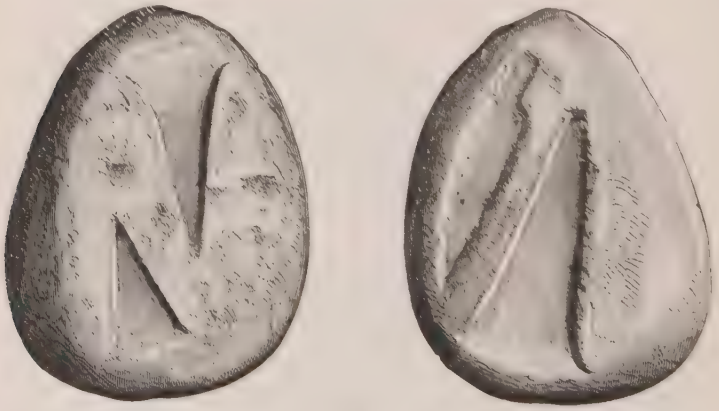
18, 19. Mould of Red Sandstone, for casting three sizes of flat axes and a small implement of the flat axe form, and portion of another axe-mould, both from Culbin Sands, Elginshire—Purchased 1889.

20. Cast of a Mould for Flat Axes, found at Stratheonan, Ross-shire—Miss Balfour, 1892.

MOULDS FOR BRONZE IMPLEMENTS.

[From other Countries.]

CN 1. Stone Mould for casting Flat Bronze Axes and Knife, from Ireland—*Lewis Collection*, Purchased 1855.



CN 1.

2 3. Half of Stone Mould for casting Flanged Axe-heads, (3) a cast from it in lead, found near Lough Corrib, Galway—*Ibid.*

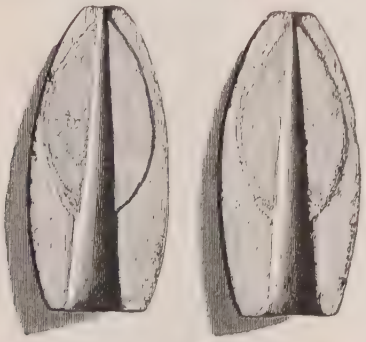
4 6. Stone Mould for casting Bronze Spear-heads (No. 6 is a cast)—*Lewis Collection.*

7. Half of Stone Mould for casting Flanged Axes with double loops—*Ibid.*

8 11. Casts of two Stone Moulds for Bronze Swords, from Devonshire.

CN 12–14. Casts of Stone Moulds for Socketed Axes (No. 14 is a cast of axe), from Normandy.

15–17. Casts in Plaster of Stone Mould for Flanged Axe-heads (No. 17 is a cast of axe), found at Théville, Cherbourg, France.



CN 4, 5.

18–19. Fac-similes of Two Halves of Stone Mould for casting Spear-heads, found at Croglin, Cumberland—Dr M. W. Taylor, 1884.

BRONZE FLAT AXES.

In Floor Case, South Side of Second Floor.

[The axes of the Bronze Age are divided into three principal varieties according to their form—(1) flat, (2) flanged, and (3) socketed; the first being the earliest and simplest form, and the third the latest and most advanced form, while the second comprehends all the developments of the transition series from the form with slight flanges to that with the greatly developed wings bent over to enclose the haft almost like a socket. The flat axe is a simple flattened wedge with curved sides tapering to the butt which is sometimes tang-shaped, though the axe, like the finer stone axes, has often both ends alike but not equally sharp. The method of hafting such implements is seen in the case of the iron axes of similar form and of recent times from Western Africa (as shown before, on p. 112). Flat axes of bronze have been occasionally found with interments, though not in Scotland.]

DA 1. Axe, $6 \times 3 \times \frac{1}{2}$ in., from Barrach, Mochrum, Wigtownshire—D. Vance, 1880.

2. Axe, $6 \times 3\frac{1}{2}$ in., from Mountskip, Vogrie, Mid-Lothian—Mrs Dewar, 1846.

3. Axe, $6\frac{1}{2} \times 3\frac{1}{4}$ in., locality unknown—Dr Scott, 1856.

4. Axe, $6\frac{1}{2} \times 4$ in., from Waughton, East Lothian—George Rainnie, 1785.

5. Axe, $7\frac{1}{4} \times 3\frac{1}{2}$ in., locality unknown—Purchased 1881.

6. Axe, $7 \times 3\frac{1}{2}$ in., with traces of tinning, from Ravelston, near Edinburgh—Alex. Keith, 1784.

7. Axe of bronze, $13\frac{5}{8}$ in. long, weighing 5 lbs. 7 oz., from Lawhead, Pentland Hills—John Cowan, 1867.

DA 8. Axe, $10\frac{3}{4} \times 6 \times \frac{3}{8}$ in., with four rows of punch marks arranged in a chevron-like pattern parallel to the edges, found near Nairn—Purchased 1880.

DA 7.

9. Axe, 7×3 in., with slightly raised edges, found with spear-head (DG 41) under a large cairn near Eildon, Roxburghshire.

10. Axe, $6\frac{3}{4} \times 3\frac{1}{2}$ in., from Ashybank, Roxburghshire—Purchased 1881.

11–18. From Lanarkshire, viz.—(**11**) $6\frac{1}{2} \times 3$ in., from near Biggar; (**12**) $5\frac{1}{4} \times 3\frac{1}{4}$ in., from Coulter; (**13**) 6×4 in.; (**14**) $5\frac{3}{4} \times 3\frac{1}{2}$ in.; (**15**) $5 \times 3\frac{3}{4}$ in., pierced with a small hole at the butt end; (**16**) $4 \times 2\frac{1}{2}$ in., imperfect; (**17**) $4\frac{1}{4} \times 1\frac{3}{4}$ in.; (**18**) $3\frac{1}{2} \times 1\frac{1}{2}$ in.—*Sim Collection*, 1882.

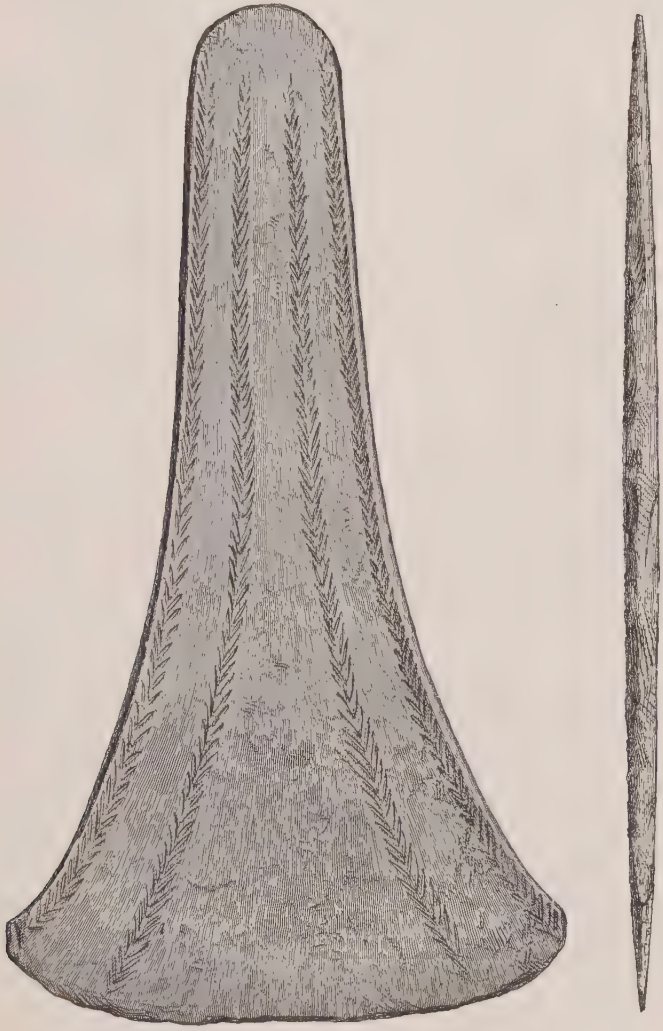
19–25. From Colleonard, Banff, viz.—(**19**) $5\frac{1}{2} \times 3\frac{1}{2}$ in., (**20**) 6×3 in., (**21**) $5\frac{1}{4} \times 4\frac{1}{4}$ in., (**22**) $3\frac{1}{4} \times 3\frac{1}{4}$ in., (**23**) imperfect, $2\frac{1}{2}$ in. across the face, (**24**) $6 \times 2\frac{3}{4}$ in., (**25**) portion only, all hammered on the face, except No. 23—Treasure Trove, 1859.

26. Axe, $5\frac{1}{4} \times 3$ in., from Tarland, Aberdeenshire—Andrew Ross, 1867.

27. Axe, $5\frac{3}{4} \times 3$ in., locality unknown—Purchased 1874.

28–29. Axes, from Camptown, East Lothian, viz.—(**28**) $5\frac{3}{4} \times 3$ in.—A. S. Skirving, 1882; (**29**) $4\frac{3}{4} \times 2\frac{3}{4}$ in.—Purchased 1876.

DA 30. Axe, $6 \times 3\frac{3}{4}$ in., from Northplot Hill, near Ratho—Capt. A. C. Maitland, 1796.



DA 8.

31. Axe, $6 \times 3\frac{3}{8}$ in., from Inchnadamff, Sutherlandshire—Dr Arthur Mitchell, 1860.

32, 33. Axes, viz.—(**32**) $6 \times 3\frac{1}{4}$ in.; (**33**) 6×3 in., from Sluie, Edenkillie,

DA Elginshire—No. 32 has a coating of tin; 33 shows traces of the same—Sir J. Dick Lauder, 1861.

34. Axe, $5\frac{1}{4} \times 2\frac{1}{2}$ in., from Forfar—A. Jervise, 1855.

35. Axe, 5×2 in., from Cree Moss, Wigtownshire—Messrs Brydon and Baillie, 1782.

DA 33.

36. Axe, $4\frac{1}{2} \times 2\frac{1}{2}$ in., found in 1834 at Dunino, Fifeshire.

37. Axe, imperfect, $4\frac{1}{2}$ in. across the face, from Abernethy, Perthshire — Col. Balfour, 1862.

38. Axe, $6 \times 3\frac{1}{4}$ in., tinned, imperfect, one of seven found at the Hill of Fortrie, Balnoon, Inverkeithing—Dr J. Stuart, 1853.

39-42. Localities unknown, viz.—(**39**) $2\frac{1}{2} \times 1\frac{1}{4}$ in.; (**40**) $2\frac{3}{4} \times 2\frac{3}{4}$ in., imperfect; (**41**) $4\frac{1}{4} \times 2\frac{1}{4}$ in.; (**42**) $4\frac{3}{4} \times 2$ in., ornamented with cross lines, dots, and regular depressions.

43. Axe, $4 \times 2\frac{1}{4}$ in., found at Loch Fada, Colonsay — A. M'Connel, 1881.

44. Axe, 5×3 in., from Kintore, Aberdeenshire — Purchased 1865.

45. Patinated Axe, $4\frac{1}{8} \times 2\frac{1}{4}$ in., from Renfrewshire — Purchased 1883.

46. Axe, $5\frac{1}{4} \times 2\frac{1}{2}$ in., locality unknown—Purchased 1874.

47. Axe, $4\frac{3}{4} \times 2\frac{1}{2}$ in., with rows of punch marks in the centre, from Kevans, Whithorn, Wigtownshire—G. Ralston, 1856.

48. Axe, $5\frac{3}{4} \times 2\frac{3}{4}$ in., ornamented with incised lines, locality unknown.

49. Axe, $5\frac{3}{4} \times 3\frac{3}{4}$ in., from Durris, Mearns—A. W. MacTier, 1882.

50. Axe, $2\frac{7}{8} \times 2$ in., imperfect, locality unknown.

51. Axe, $4 \times 2\frac{3}{4}$ in., imperfect, from Aboyne, Aberdeenshire—Purchased 1883.

52. Axe, $5\frac{1}{2} \times 3\frac{1}{4}$ in., found in a cave, with bones of animals, near Ardgour House, Inverness-shire—Alexander Maclean, 1871.

53. Axe, $6 \times 3\frac{1}{2}$ in., locality unknown.

54. Axe, $5\frac{7}{8} \times 3$ in., from West Coast—Purchased 1885.

55. Axe, $6\frac{1}{8} \times 3\frac{1}{4}$ in., with seven rows of chevron-like patterns on each face parallel to the cutting edge, from Banffshire—Purchased 1887.

56. Axe, $6\frac{1}{2} \times 3\frac{5}{8}$ in., from Berwickshire—Purchased 1887.

57. Axe, $5\frac{7}{16} \times 3\frac{1}{4}$ in., from Dores, Inverness-shire—Purchased 1888.

58. Axe of copper, $4\frac{3}{4} \times 2\frac{1}{2}$ in., butt hammered, cutting edge blunted, from Pitlochrie, Perthshire—Dr Arthur Anderson, 1889.

59. Axe, $6 \times 3\frac{9}{16}$ in., butt hammered, found near Forres, Elginshire—Purchased 1886.

DA 60. Axe, $3\frac{7}{16} \times 1\frac{5}{8}$ in., with slight flanges and transverse stop-ridge, from Aberdeenshire—*Sturrock Collection.*

61, 62. Axes said to have been found at Abdie, Fifeshire, viz.—(**61**) $6\frac{5}{8} \times 3\frac{5}{8}$ in., the sides hammered into three facets; (**62**) $5\frac{7}{8} \times 3\frac{1}{4}$ in., slightly imperfect at cutting edge and fractured across the middle, one face showing "tinning"—*Sturrock Collection.*

63. Axe, $5\frac{1}{16} \times 3\frac{1}{8}$ in., cutting edge blunted, from Glack, Parish of Daviot, Aberdeenshire—Purchased 1890.

BRONZE FLAT AXES.

[From other Countries.]

DB 1-67. Viz.—(**1-65**) from Ireland, varying in size from 3×1 to $8 \times 3\frac{3}{4}$ in.—*Bell Collection*, A. H. Rhind, 1860, Edward Ledwich, LL.D., 1784, &c.; (**66**) axe, from Ireland, $3\frac{3}{4} \times 3$ in.—J. Mackinlay, 1860; (**67**) axe, $6\frac{3}{4} \times 4\frac{3}{4}$ in., found in a bog at Streamstown, Ireland—Sir Herbert Eustace Maxwell, 1889.

BRONZE FLANGED AXES.

In Floor Case, South Side of First Floor.

[The flanged axes may be divided into several varieties—(1) with simple flanges or slight risings at the sides; (2) with the flanges more extended in the central portion and passing into wings; (3) with the wings bent round to enfold the handle like a socket. All these varieties may be combined with a stop-ridge nearly half-way down the sides of the axe, which is sometimes made continuous with the flanges or wings so as to produce a kind of side-pocket on either side of the median portion of the butt. The purpose of this development of the stop-ridge is to prevent the butt of the axe-head from sinking too deeply into the handle. When the wings and stop-ridge are very pronounced, and a loop added at the side, the implement is often termed a palstave. The common varieties of the flanged axe with the wings and stop-ridge well developed are mostly elongated or chisel-shaped, with nearly parallel sides and expanding semicircular cutting faces. Flanged axes are often ornamented with a variety of punched or hammered patterns which show considerable fertility of design. They have been occasionally found with interments.]

DC 1. Axe, 6×2 in., with loop on one side, locality unknown.

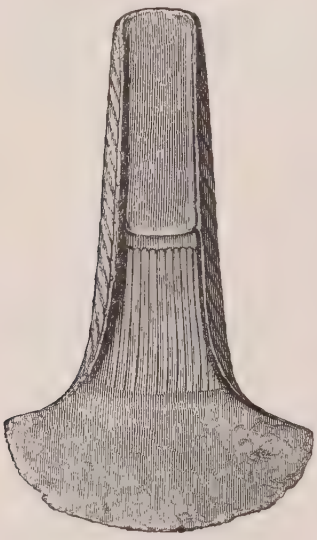
2-14. Axes, viz.—(**2**) $6\frac{1}{2} \times 1\frac{3}{4}$ in., with loop on one side, from Aikbrae; (**3**) $6 \times 2\frac{3}{8}$ in., from Kerswell, Carnwath; (**4**) $5\frac{1}{4} \times 2\frac{1}{4}$ in., imperfect; (**5**) $5\frac{1}{2} \times 2\frac{1}{2}$ in., imperfect; (**6**) $5\frac{1}{2} \times 2\frac{3}{4}$ in., with slight flanges and hole through centre, from Peeblesshire; (**7**) $5\frac{1}{4} \times 2$ in.; (**8**) $4\frac{1}{4} \times 2$ in., imperfect; (**9**) $4\frac{1}{4} \times 1\frac{3}{4}$ in., imperfect; (**10**) $4\frac{1}{4} \times 2$ in.; (**11**) $3\frac{3}{4} \times 2$ in.; (**12**) 4×2 in., imperfect; (**13**) $3\frac{1}{4} \times 1\frac{3}{4}$ in., imperfect; (**14**) $3\frac{1}{4} \times 2\frac{3}{4}$ in., imperfect—localities unknown—*Sim Collection.*

15. Axe, $6 \times 2\frac{1}{4}$ in., from Grant Braes, Haddingtonshire—Purchased.

16. Axe, $7 \times 3\frac{1}{2}$ in., with slightly raised edges, locality unknown.

17. Deeply-flanged Axe, $6\frac{3}{4} \times 2\frac{1}{2}$ in., with rivet-hole, stop-ridge, and raised rib down centre, from Kilnotrie, Crossmichael, Kirkcudbrightshire—James Napier, 1830.

DC 18. Axe, $5\frac{3}{4} \times 2\frac{1}{2}$ in.—Purchased Ardmillan Sale, 1876.



DC 22.

19. Axe, $6 \times 2\frac{1}{2}$ in., from Devon, near Tillicoultry—Robert Bald, 1823.

20-21. Axes, $6\frac{1}{2} \times 2\frac{5}{8}$ in., and $5\frac{1}{8} \times 2\frac{5}{8}$ in., found near Peebles.

22. Axe, $5\frac{1}{2} \times 3$ in., with perpendicular and oblique ridges, from Applegarth, Dumfriesshire—William Walker, 1851.

23. Axe, $5\frac{3}{4} \times 2$ in., from Windshiel, near Duns—W. Stevenson, 1870.

24. Axe, $5 \times 1\frac{7}{8}$ in., from Largs—John Erskine, 1787.

25. Axe, $5\frac{3}{4} \times 2\frac{1}{2}$ in., from Gartmore, Stirlingshire—Robert Graham, 1782.

26. Axe, $5\frac{1}{4} \times 1\frac{3}{4}$ in., from Fettercairn, Forfarshire—Andrew Jervise, 1864.

27. Axe, 5×2 in., from near Birrenswark, Dumfriesshire.

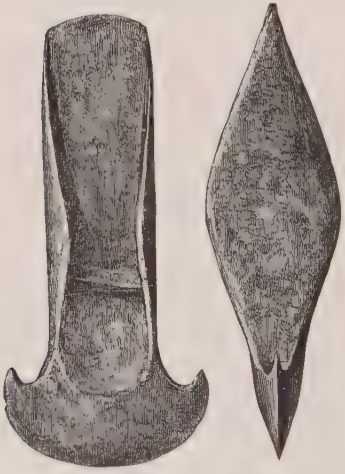
28. Axe, $5\frac{1}{2} \times 2$ in., locality unknown.

29. Axe, $6 \times 2\frac{3}{4}$ in.—Purchased 1874.

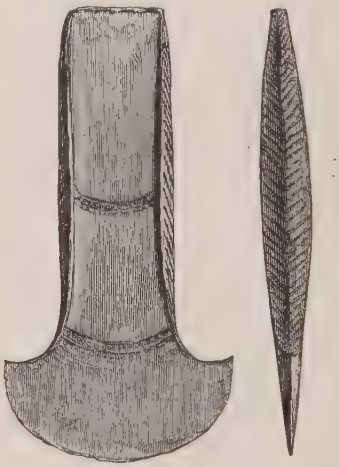
30. Axe, $4\frac{3}{4} \times 2\frac{1}{4}$ in., from a cairn, Fifeshire—Dr Daniel Wilson, 1863.

31. Axe, $4\frac{3}{4} \times 2\frac{1}{4}$ in., with stop-ridge, from Watten, Caithness—Captain Alexander Gunn, 1871.

32. Axe, $4\frac{3}{4}$ in. long, with stop-ridge, the sides ornamented with parallel depressed lines meeting obliquely on the central ridge, from Dams, Balbirnie, Fife—John Balfour, 1879.



DC 31.



DC 32.

33. Axe, $3\frac{1}{2} \times 1\frac{3}{4}$ in., from Dalry, Kirkcudbrightshire—Rev. George Murray, 1866.

DC 34. Axe, $4\frac{1}{2} \times 1\frac{3}{4}$ in., from "Lord Arthur's Cairn," Tullynessle, Aberdeenshire—J. Laing, 1863.

35. Axe, $3\frac{3}{4} \times 1\frac{1}{8}$ in., chisel-shaped, from Longman, Macduff, Banffshire—James Paterson, 1865.

36. Axe, 4×1 in., chisel-shaped, with stop-ridge, found in Burreldale Moss, Aberdeenshire—Rev. James Donald, 1875.

37. Axe, $4\frac{3}{4} \times 1\frac{3}{4}$ in., from Licklyhead, Premnay, Aberdeenshire—Dr John Stuart, 1853.

38. Axe, $4\frac{3}{4} \times 1\frac{3}{4}$ in., found near Craig Makerran, Perthshire—D. Morrison, 1828.

39. Axe, $4 \times 2\frac{1}{2}$ in., with parallel markings on the sides, from Achinroer, Balcardine, Argyllshire—Sir Alexander Campbell, 1865.

40. Axe, $4\frac{1}{2} \times 2\frac{1}{4}$ in., with slight flanges, from Mid-Lothian—Dr D. Wilson, 1863.

41-44. Axes, localities unknown, viz.—(**41**) $4\frac{1}{2} \times 1$ in.; (**42**) $3\frac{1}{2} \times 1\frac{3}{4}$ in.; (**43**) $3 \times 1\frac{1}{2}$ in., imperfect; (**44**) $2\frac{1}{2} \times 1\frac{1}{2}$ in., imperfect.

45. Axe, $6 \times 2\frac{1}{2}$ in., from Peterhead—Purchased 1883.

46. Axe, $5\frac{1}{4} \times 2\frac{1}{4}$ in., the extremities of the wings slightly bent over the shaft, from Drumfad, Blackford, Perthshire—Purchased 1883.

47. Axe, $4\frac{3}{4} \times 2$ in., butt hammered, from Renfrewshire—Purchased 1883.

48. Axe, $6\frac{1}{2} \times 2\frac{3}{4}$ in., from Clintshill, Berwickshire—Purchased 1884.

49. Axe, $5\frac{1}{8} \times 1\frac{1}{2}$ in., locality unknown—Purchased 1884.

50, 51. Axes, viz.—(**50**) $4\frac{1}{2} \times 3\frac{1}{8}$ in., cutting edge and butt damaged; (**51**) $5\frac{1}{4} \times 2$ in., flanges overlapping, and with high stop-ridge, from West Coast—Purchased 1885.

52. Axe of yellow bronze, $4\frac{5}{8} \times 2\frac{1}{8}$ in., with semicircular cutting edge, butt imperfect, from Canonbie, Dumfriesshire—W. Scott Elliot, 1885.

53. Axe, $5\frac{3}{8} \times 3$ in., from Ladyland, Kilbirnie, Ayrshire—R. W. C. Patrick, 1886.

54. Axe, butt imperfect, $5\frac{1}{4} \times 2$ in., from Cairnleith, Kingoldrum, Forfarshire—William Duncan, 1886.

55. Axe, $5 \times 1\frac{7}{8}$ in., from Auchendrane, Ayrshire—Mr Currie, 1886.

56. Axe, $4\frac{5}{8} \times 1\frac{3}{4}$ in., from Dufftown, Banffshire—Purchased 1886.

57. Axe, $5\frac{1}{8} \times 2$ in., from Lanarkshire — Purchased 1887.

58-61. Axes from Wigtownshire, viz.—(**58**) $6\frac{1}{2} \times 2\frac{7}{8}$ in., finely formed and perfect, from Barr, Penninghame; (**59**) $5\frac{1}{2} \times 2\frac{1}{4}$ in., with hammered butt, from Derry, Kirkcowan; (**60**) $5\frac{3}{4} \times 1\frac{9}{16}$ in., much worn, from Barhullion; (**61**) $4\frac{1}{4} \times 1\frac{3}{4}$ in., butt wanting, with traces of loop, from Culnoag, Sorbie—Sir Herbert Eustace Maxwell, 1889.

62. Axe, $4\frac{7}{8} \times 2\frac{1}{16}$ in., cutting edge blunted by hammering, from Bushy, Lanarkshire—Purchased 1888.

63. Axe, $4\frac{1}{2} \times 1\frac{5}{8}$ in., butt slightly imperfect, from Mouswald, Dumfriesshire — Charles Carruthers, 1889.

DC 52.

64. Axe, $5\frac{3}{16} \times 2\frac{1}{8}$ in., butt imperfect, from Catterthun, near Brechin, Forfarshire—Purchased at Sturrock Sale, 1889.

DC 65–71. Axes, viz.—(**65**, **66**) of same form, with lozenge-shaped flanges, each $5\frac{5}{8} \times 1\frac{7}{8}$ in. ; (**67**) $5\frac{1}{4} \times 2\frac{1}{16}$ in., with slight flanges and tapering from the centre to each end ; (**68**) $3\frac{3}{8} \times 1\frac{15}{16}$ in., with projecting stop-ridge ; (**69–71**) of same form and size, with flanges meeting in the centre of the face on each, and with deep stop-ridges, said to have been found on the West Coast—Purchased 1890.

72. Axe or chisel, $5\frac{1}{8} \times 1\frac{1}{8}$ in., transverse cutting edge, found near Perth—Purchased 1890.

73. Axe, $2\frac{7}{8} \times \frac{15}{16}$ in., with slight stop-ridge and flanges, from Loch Hope, Durness, Sutherlandshire—Hew Morrison, 1885.

74. Axe, $4 \times 1\frac{1}{2}$ in., from Stonefield, Tarbert, Lochfyne—Mr Maclean, 1892.

BRONZE FLANGED AXES.

[From other Countries.]

In Wall Case, North Side of Second Floor.

DD 1-106. Viz.—(**1–95**) flanged axes, from Ireland—*Bell Collection*, A. H. Rhind. 1860, Edward Ledwich, LL.D., 1784, T. Mackenzie, 1856, Dr W. H. Scott, 1856, J. Mackinlay, 1860 ; (**96**) axe, $9\frac{1}{4} \times 2\frac{1}{2}$ in., of dark coppery bronze, probably French—Purchased 1874 ; (**97**) axe, 5×2 in., with flanges turned over, probably Italian—formerly in Major Sirr's Collection—J. Mackinlay, 1860 ; (**98–100**) axes, viz.—(**98**) $7 \times 3\frac{1}{2}$ in., probably Italian ; (**99**) $6\frac{3}{4} \times 2\frac{7}{8}$ in.; (**100**) $5\frac{1}{8} \times 2$ in., with small flanges, probably French—*Ruthven Collection*, 1884 ; (**101–104**) axes, from Ireland, viz.—(**101**) $4\frac{5}{8} \times 1\frac{5}{8}$ in.; (**102**) $4\frac{5}{16} \times 1\frac{5}{8}$ in.; (**103**) butt imperfect, $4\frac{1}{8} \times 2\frac{1}{4}$ in.; (**104**) butt imperfect, $4 \times 2\frac{3}{8}$ in.—Sir H. E. Maxwell, Bart., 1889 ; (**105**) axe with hammered flanges, $5\frac{3}{8} \times 2\frac{1}{4}$ in., from Sens, Central France—Sir H. E. Maxwell, Bart., M.P., 1888 ; (**106**) palstave of the long, narrow form, $6\frac{3}{4}$ in. long, with triangular recess on each face below stop, the sides ornamented with groups of horizontal lines, from Auxerre, Yonne, France—Purchased 1890.

BRONZE SOCKETED AXES.

In Floor Case, South Side of First Floor.

[The socketed axes of bronze are cast in such a manner as to receive the short end of an L-shaped handle into the upper end of the butt. They are generally smaller than either of the flat or flanged varieties, and are usually provided with a small loop at the side, underneath the rim of the socket. The socket, which may be circular, or oval, or oblong with rounded corners or slightly curved sides, tapers to the bottom and varies in depth according to the length of the implement. Sometimes the rim of the socket is surrounded by a slight moulding, once or twice repeated, and occasionally the flat external faces of the implement are ornamented by vertical lines, springing from or terminating in small circles, single or concentric, formed in the casting. These socketed axes are frequently found in hoards with a variety of other articles of bronze, but they have been very rarely found with interments.]

DE 1. Axes, $3\frac{1}{2} \times 1\frac{3}{4}$ in., with raised lines on the sides, from Darnhall Moss, Eddlestone, Peeblesshire—W. Murray, 1785.

2. Axe, $3\frac{5}{8} \times 2\frac{3}{4}$ in., found at Strath, Skye—Thomas Mackenzie, 1884.

3. Axe, $3\frac{1}{4} \times 1\frac{7}{8}$ in., with raised lines on the sides, from Kilnotrie, Crossmichael, Kirkcudbrightshire.

DE 4. Axe, $3\frac{3}{4} \times 2$ in., with raised lines on the sides, from Peeblesshire.

5. Axe, $3\frac{1}{4} \times 1\frac{1}{8}$ in., ornamented by parallel lines, imperfect, from the Carse Loch, Kirkcudbright—Robert Riddell, 1785.

6. Axe, $3\frac{3}{8} \times 1\frac{1}{2}$ in., from Hall Hill, Kincardineshire—A Jervise, 1858.

7. Axe, $3 \times 2\frac{1}{4}$ in., imperfect, found near Edinburgh—Purchased 1881.

8. Axe, $3\frac{1}{2} \times 2\frac{1}{4}$ in., with four parallel vertical lines under the collar on each side, said to have been found with stone axes (AF 15, 16) at Southend, Cantyre.

DE 2.

DE 12.

9. Axe, $3\frac{1}{2} \times 1\frac{5}{8}$ in., with three raised lines on each side, found in Leith—D. Stevenson, C.E., 1877.

10. Axe, $2\frac{7}{8} \times 2$ in., from Graham's Mount, near Penicuik—Dr Brewster, 1819.

11. Axe, $2\frac{3}{8} \times 1\frac{1}{2}$ in., with hole in one side, from Achnacree Moss, Loch Etive—Dr R. A. Smith, 1873.

12. Axe, $4\frac{7}{8} \times 1\frac{1}{4}$ in., from Kingoldrum, Forfarshire—Rev. J. O. Haldane, 1880.

13. Axe, $2\frac{7}{8} \times 1\frac{5}{8}$ in., with three raised bands passing through the loop, from Forest of Birse, Aberdeenshire—James Drummond, 1856.

14. Axe, $2 \times 1\frac{7}{8}$ in., loop partly double, locality unknown—Dr W. H. Scott, 1856.

15. Axe, $2\frac{1}{8} \times 1\frac{3}{4}$ in., from Kincardineshire—Professor Skene, 1781.

16. Axe, $3\frac{1}{2} \times 1\frac{3}{4}$ in., from Arthur's Seat, Edinburgh—Dr D. Wilson, 1863.

17–19. Axes, viz.—(**17**) $3\frac{1}{2} \times 1\frac{1}{2}$ in., with parallel lines on the sides; (**18**) $5 \times 2\frac{1}{8}$ in., ornamented by parallel lines, without loop; (**19**) $3\frac{1}{2} \times 2$ in., from Bell's Mills, Dean, Edinburgh—Purchased 1865.

20. Axe, $3\frac{3}{4} \times 2\frac{1}{2}$ in., found near Struthers House, Fifeshire—Rev. A. Hutton, 1781.

21. Axe, $3\frac{7}{8} \times 1\frac{3}{4}$ in., from Langraw, Roxburghshire—William Oliver, 1833.

22. Axe, $4 \times 1\frac{3}{4}$ in., imperfect, from Kirkland, Leswalt, Wigtownshire—Robert Blair, 1881.

DE 23–32. Axes, viz.—(**23**) $4\frac{1}{4} \times 2\frac{1}{4}$ in., with three parallel lines down the middle, from Hangingshaw, Coulter; (**24**) $5 \times 2\frac{1}{4}$ in., locality unknown; (**25**) $3\frac{3}{4} \times 2\frac{1}{4}$ in., from Aikbrae, Peeblesshire; (**26**) $3\frac{1}{2} \times 2$ in.; (**27**) $3 \times 2\frac{1}{4}$ in.; (**28**) $3 \times 2\frac{1}{2}$ in.; (**29**) $3\frac{1}{4} \times 2$ in., imperfect; (**30**) $2\frac{1}{4} \times 1\frac{3}{4}$ in.; (**31**)

DE 17–19.

$2\frac{1}{4} \times 1\frac{1}{2}$ in., imperfect; (**32**) $1\frac{3}{4} \times 1\frac{1}{2}$ in.—localities unknown—*Sim Collection.*

33. Axe, $3\frac{1}{4} \times 2$ in., part of hoard from Gospartie, Fifeshire—Patrick Skene, 1829.

34. Axe, $3\frac{1}{2} \times 2\frac{1}{4}$ in., from near Manse of St Martins, Perth—Rev. W. W. S. Hamilton, 1783.

35, 36. Axes, viz.—(**35**) $3\frac{1}{2} \times 1\frac{1}{2}$ in., edge broken, (**36**) $2\frac{3}{4} \times 2\frac{1}{8}$ in., imperfect, both found in Leith—Dr D. H. Robertson, 1866.

37, 38. Axes, viz.—(**37**) $3\frac{1}{2} \times 1\frac{1}{2}$ in., (**38**) $2\frac{1}{2} \times 2\frac{1}{4}$ in., both from Loch Drum, Kincardineshire—Professor Skene, 1781.

39, 40. Axes, viz.—(**39**) $2\frac{3}{4} \times 2$ in., (**40**) $3\frac{1}{2} \times 2\frac{1}{8}$ in., from Skye—Rev. Donald M'Queen, 1784.

41. Axes, $3\frac{1}{4} \times 2$ in., from Kilmuir, Skye—Rev. Alexander Macgregor, 1853.

42. Axes, $3\frac{3}{4} \times 2\frac{1}{4}$ in., ornamented with five parallel raised lines—Dr Andrew Brown, 1857.

43. Axe, $2\frac{3}{4} \times 2\frac{1}{4}$ in., locality unknown.

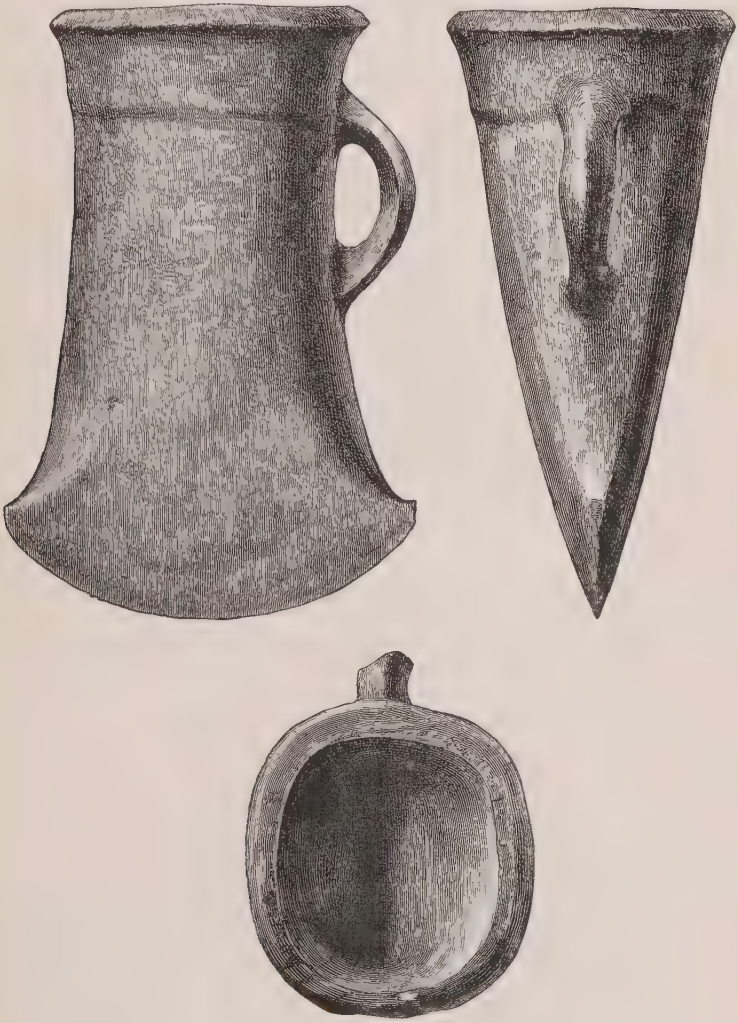
44. Axe, $3\frac{1}{4} \times 2\frac{3}{8}$ in., thickly patinated, from Craighall, near Blairgowrie—Purchased 1886.

45. Axe, $3\frac{3}{4} \times 2$ in., loop broken, with three bars down each face, locality unknown—Purchased 1887.

46. Axe, $3\frac{5}{16} \times 2\frac{3}{8}$ in., with raised line below mouth, and loop, from North Berwick Law—Clive Walker, 1887.

47-49. Axes, from Wigtownshire, viz.—(**47**) $3\frac{1}{2} \times 2\frac{1}{4}$ in., from Whithorn; (**48**) $3\frac{1}{4} \times 2\frac{1}{8}$ in., from Penninghame; (**49**) $2\frac{7}{8} \times 2\frac{1}{8}$ in., mouth slightly imperfect, from Penninghame—Sir Herbert Eustace Maxwell, 1885.

DE 50. Axe, 3 × 2 in., from Derry, Mochrum, Wigtownshire—Sir Herbert Eustace Maxwell, 1889.



DE 48.

51. Miniature Axe, $1\frac{15}{16} \times 1\frac{1}{4}$ in., from Blairbuy, Wigtownshire—Sir Herbert Eustace Maxwell, 1889.

52. Axe, $2\frac{7}{8} \times 2\frac{1}{8}$ in., with loop broken off, from Comrie, Perthshire—Sir Herbert Eustace Maxwell, 1889.

DE 53. Axe, $4\frac{1}{16} \times 2\frac{1}{4}$ in., from Muirfad, Kirkmabreck, Kirkcudbright—Sir Herbert Eustace Maxwell.

54. Axe, $4\frac{1}{8} \times 2$ in., from Glentanner, Aberdeenshire—*Sturrock Collection.*

DE 51.

55. 56. Axes, viz.—(**55**) $2\frac{5}{8} \times 2\frac{1}{4}$ in., (**56**) $2\frac{1}{4} \times 1\frac{5}{8}$ in., both said to be from West Coast—Purchased 1890.

57. Axe, $3\frac{1}{4} \times 2\frac{1}{16}$ in., ornamented with three raised ribs on each face, from Croy, Cumbernauld, Dumbartonshire—Purchased 1890.

BRONZE SOCKETED AXES.

[From other Countries.]

In Wall Case, North Side of Second Floor.

DF 1-127. Viz.— **1-114**) socketed axes, from Ireland—*Bell Collection*, A. H. Rhind, 1860, Edward Ledwich, LL.D., 1784, J. C. Roger, 1856, and Purchased; (**115**) axe, $5 \times 1\frac{1}{4}$ in., wedge-shaped, from Corsént, Brittany—Rev. E. L. Barnwell, 1869; (**116-121**) axes, each $5 \times 1\frac{1}{2}$ in., and (**122**) portion of clay vessel in which they were found at Quimper, Finistère, France—M. Le Men, 1861; (**123**) axe, $2\frac{3}{4} \times 1$ in., from Bellingham, Northumberland—Sir Walter Elliot, 1879; **(124) axe, 6×2 in., with small downward projecting ears, probably from Italy**—*Bateman Collection*, 1884; (**125-126**) axes, from England, viz.—(**125**) from Carlisle, $4 \times 1\frac{3}{4}$ in.; (**126** from Greystroke, Cumberland, $3\frac{3}{8} \times 1\frac{5}{16}$ in.—Sir Herbert Eustace Maxwell, Bart., 1888; (**127**) axe, $4\frac{1}{8} \times 2\frac{1}{4}$ in., with loop, from Oissel, Seine-Inférieure, France—Purchased 1890.

BRONZE SPEAR-HEADS.

In Floor Case, South Side of First Floor.

[The spear-heads of bronze, which, like the socketed axes, belong to a time when casting over a core was practised, are often very fine examples of the founder's art. The blade varies from a short to a very elongated leaf-shape. The socket, which is usually round, but sometimes slightly oval, is often prolonged for several inches beyond the base of the blade, and in all cases it extends along the middle of the blade as a midrib, cored almost to the point. In the larger examples there are occasionally segmental and circular openings in the blade on either side of the midrib, and sometimes a system of ornamentation of dots and lines is applied to the blade and socket. The socket frequently shows two rivet-holes for the fastening to the shaft, or a pair of loops either in, or immediately below, the base of the blade. Socketed spear-heads of bronze have never in any well-authenticated instance been found with interments in Britain.]

DG **1.** Spear-head, 19 in. long, with segmental and circular openings in the blade, found at Denhead, Coupar-Angus—G. Kinloch, 1832.

2. Spear-head, 17 in. long, locality unknown.

3, 4. Spear-heads, 16¼ and 15⅝ in. long, from East Lothian—Purchased, Belhaven Sale, 1873.

5. Spear-head of plain leaf-shape, 13 in. long, found near Kinghorn, Fife—Dr Daniel Wilson, 1863.

6-14. Spear-heads, localities unknown.

15. Spear-head, 13¾ in., from Galloway—Lady Winifred Maxwell, 1784.

16. Spear-head, 4¾ in. long, locality unknown.

17. Paper Cast of Spear-head, 14½ in., the original found in moss at Kirklomie, Strath Halladale, Sutherland.

18. Spear-head, 10½ in. long—Purchased, Ardmillan Sale, 1876.

19. Spear-head, 9½ in. long, from Morton, near Newton-Stewart, Galloway—Dr William Black, 1880.

20. Spear-head, 9½ in. long, with rivet-holes in socket—Purchased 1874.

21, 22. Spear-heads, localities unknown.

23. Spear-head, 5¾ in. long, looped, with incised lines and punctulations on the blade, from Dean Water, Forfarshire—*Bell Collection.*

24. Spear-head, 7¼ in. long, imperfect, from Cardross—Purchased 1882.

25. Spear-head, 6¼ in., with loops in the blade, from Langburnshiels, Roxburghshire—Treasure Trove, 1865.

26-28. Spear-heads, localities unknown.

29. Spear-head with segmental openings, imperfect, 5½ in. long, bent, from Stirlingshire—James Drummond, R.S.A., 1856.

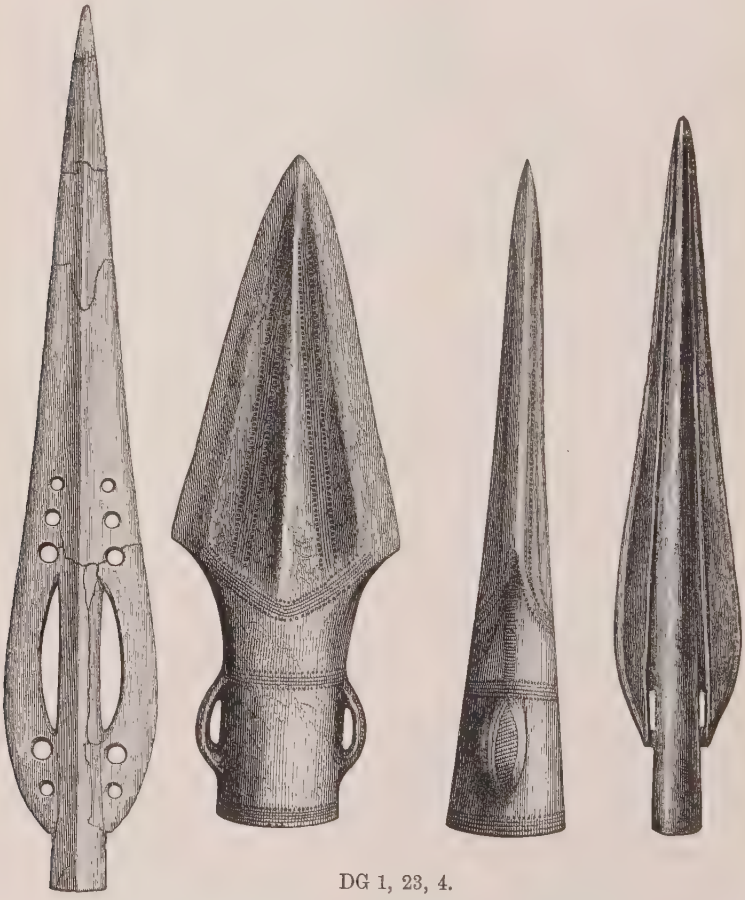
30. Portion of Spear-head, 4 in. long, from Buchan, Glentrool, Kircudbright—John Forsyth, 1871.

31. Spear-head, 5 in. long, imperfect, from Carlusk, Boharm, Banffshire—Purchased 1881. **32.** Spear-head, imperfect, locality unknown.

33. Spear-head, 3¼ in. long, point broken, rivet-holes in the socket, found near Edinburgh—Purchased 1881.

DG **34**. Spear-head, 6½ in. long, curved from socket to point, from Skye—Rev. D. Macqueen, 1784.

35. Spear-head, 4½ in. long, with loops on the socket.



DG 1, 23, 4.

36–40. Spear-heads, viz.—(**36**) 5½ in. long, with loops and bands of parallel lines on the socket, from Douglas ; (**37**) 5 in., point broken off ; (**38**) 5¼ in., with rivet-holes in the socket, from Lanark ; (**39**) 4¼ in., socket broken off ; (**40**) 8¼ in., from parish of Crawford—*Sim Collection.*

41. Lance-head, 3½ in. long, found with axe (DA 9) in Roxburghshire.

42. Lance-head, 2¾ in. long, found on Pitscandley Hill, near Forfar—Rev. John Jamieson, 1785.

43. Lance-head, 2¾ in. long, from Blacklaw, Bendochy—George Kinloch, 1832.

DG

DG 40.

DG 36.

DG 45.

DG 52.

DG 61.

DG 44. Spear-head, 6 in. long, from Balmaclellan, New Galloway—Rev. George Murray, 1862.

45. Spear-head, 8 in. long, with loops in blade, from moss at Linton, Roxburghshire—Alexander M. Forrest, 1830.

46. Spear-head, 5½ in. long, locality unknown.

47. Javelin-head, 3 in. long, imperfect, from Balgown Moss, Kirkcolm, Wigtownshire—Earl of Stair, 1883.

48. Leaf-shaped Spear-head, 22¼ in. long, with two holes in lower portion of blade, found near Lordscarnie, Fifeshire—Purchased 1886.

49. Leaf-shaped Spear-head, 7 in. long, found in moss near Stirling—R. W. C. Patrick, 1886.

50. Lance-head, 4⅝ in. long, with loops on socket, and blade ribbed, locality unknown—Miss Grieve, 1886.

51. Lance-head, 4$\frac{3}{16}$ in. long, with loops on socket, from Strathaven—Purchased 1887.

52. Spear-head, leaf-shaped, 15⅛ in. long, slightly curved, with loops at base of blade, from Barhullion, Wigtownshire—Sir H. E. Maxwell, Bart., 1888.

53. Leaf-shaped Lance-head, 8¼ in. long, with two rivet-holes in socket, from near Falkirk—Purchased 1888.

54. Leaf-shaped Spear-head, 3$\frac{11}{16}$ in. long, with remains of loops and with rivet-hole, from Clayyard, Machariach, Arran—Charles Browning, 1889.

55. Bronze Ferrule for Spear-shaft, 7⅝ in. long, 1 inch across mouth, with rivet-hole at 1⅛ in. from broad end, from Berwickshire—Purchased 1889.

56. Spear-head, 7⅜ in. long, with centre rib and projecting loop on each side, from Auchindneich, Arbuthnot, Kincardineshire—*Sturrock Collection.*

57. Spear-head, 4⅞ in. long, with projecting loops, from Craigielee, Parish of Craigie, Perthshire—*Sturrock Collection.*

58. Javelin-head, 2⅞ in. long, with projecting loops, from Glentanner, Aboyne, Aberdeenshire—*Sturrock Collection.*

59. Spear-head, leaf-shaped, 8⅓ in. long, imperfect at point and mouth of the socket, from Burghead, Elginshire—Hugh W. Young, 1890.

60. Spear-head, leaf-shaped, 5¾ in. long, with rivet-hole, from Kinneff, Kincardineshire—Rev. Alan Stewart, 1834.

61. Spear-head, leaf-shaped, imperfect, 17⅞ in. long, with prominent, angular midrib, from New Downie, Panmure—Purchased 1892.

BRONZE SPEAR-HEADS.

[Other Countries.]

In Wall Case, North Side of Second Floor.

DH 1-90. Viz.—(1-89) spear-heads, from Ireland—*Bell Collection*, &c.; (90) spear-head, 8¾ in. long, with two rivet-holes in the socket, probably from Greece—*Ruthven Collection*, 1884.

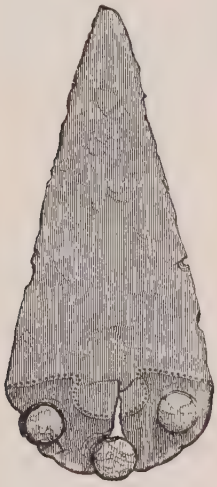
BRONZE BLADES.

In Floor Case, South Side of First Floor.

[The small bronze blades in this section are of two varieties—(1) flat, triangular, and attached to the haft by rivets; and (2) oval, and with an ornamented midrib and a tang for insertion in the haft. The first variety may be

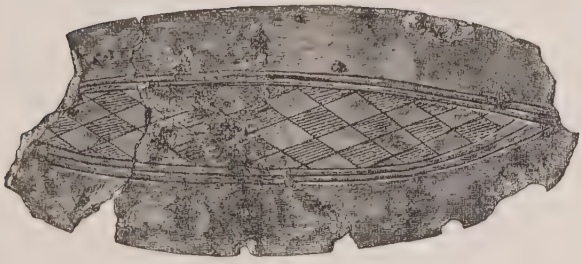
classed as knife-daggers, the second is more akin to the small, thin, oval-shaped and bifid blades, which from their slenderness of form and sharpness of edge have been termed "razors." Both varieties are generally found with interments.]

DI 1. Bronze Blade, 5 in. long, triangular, tapering, with three rivets, from cist at Cleigh, Lochnell, Argyllshire—Dr R. Angus Smith, 1874.



DI 1.

DI 2.



DI 4.

2. Bronze Blade, tapering, with rivets, $4\frac{1}{2}$ in. long, from cist at Drumlanrick, near Callander, Perthshire—Purchased 1874.

3. Bronze Blade, imperfect, $3\frac{3}{4}$ in. long, tapering, with rivets, from Carlochan Cairn, Chapelerne, Crossmichael—Alexander Copland, 1782.

4. Bronze Blade, tanged and oval-shaped, $2\frac{3}{4} \times 1\frac{1}{4}$ in., imperfect, ornamented with pattern of incised lines, found in urn (EA 41) near Joppa—William Lowson, 1882.

5. Cast of a Bronze Blade, $4\frac{1}{4} \times 2\frac{3}{4}$ in., tapering, with raised mid-rib, from cist at Bishopmill, Elgin—Rev. J. M. Joass, 1875.

BRONZE DAGGER-BLADES.

In Floor Case on South Side of First Floor.

[The broad, heavy dagger-blades in this section, with sides more or less curved, and a tapering midrib, have been attached to the handle by two or more rivets in the base of the blade. Some of those with narrower bases may have been fixed in the haft in the ordinary way, with the blade in the line of the vertical axis of the haft, while others with broader bases may have been long-shafted weapons with the blade fixed at right angles to the haft like a battle-axe. These large dagger-blades are rarely found in association with interments.]

DJ 1.

DJ 5.

DJ 1. Broad Dagger-blade, 12½ in. long, with four rivet-holes, and rivets still

DJ in place, found in moss at Whiteleys, Stranraer, Wigtownshire—Stephen Hunter, 1868.

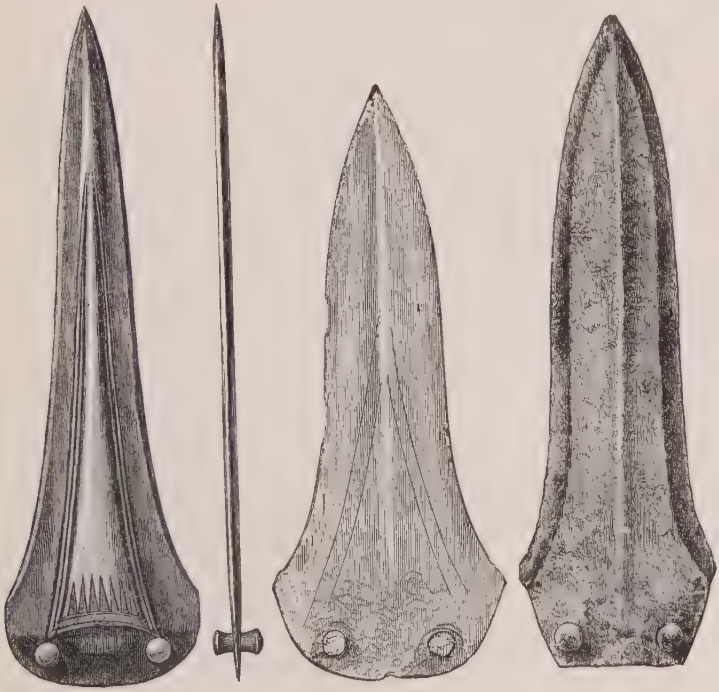
2. Broad Dagger-blade, 11 in. long, slightly imperfect, with five rivet-holes, from Portmoak Moss, Lochleven, Kinross-shire—Lieut.-Col. George Miller, 1829.

3. Broad Dagger-blade, 14¾ in. long, with three rivet-holes, two retaining rivets, from Moss-Side, near Crossraguel Abbey, Ayrshire—Rev. James Inglis, 1832.

4. Broad Dagger-blade, 11 in. long, with four rivet-holes, from Sluie, Elginshire—Sir John Dick Lauder, 1861.

5. Broad Dagger-blade, 9 in. long, imperfect at the base, with two rivet-holes, from Galloway—Earl of Stair, 1869.

6. Broad Dagger-blade, 12 in. long, with three rivet-holes, one retaining rivet, locality unknown.



DJ 20, 21, 22.

7. Broad Dagger-blade, 10 in. long, imperfect at the point, locality unknown.

8. Broad Dagger-blade, 7¾ in. long, imperfect, locality unknown—*Sim Collection.*

9–11. Broad Dagger-blades, viz.—(**9**) 13 in. long, with traces of three rivet-holes; (**10**) 11 in. long; (**11**) 9½ in. long, with traces of four rivet-holes; from Kingarth, Bute—Treasure Trove, 1862.

12. Portion of thick, ribbed dagger-blade, 6 in. long, locality unknown.

DJ 13. Broad Dagger-blade, 7¼ in. long, locality unknown.

14. Broad Dagger-blade, 13 in., with three rivet-holes, locality unknown.

15. Fragment of Dagger-blade, locality unknown.

16. Rapier-shaped Dagger-blade, 12⅝ in. long, with two rivet-holes, from Buttergask, near Ardoch, Perthshire—W. Mackenzie, 1860.

17. Rapier-shaped Dagger-blade, 10¾ in. long, with two rivet-holes, imperfect at point, from Fairholm, Lockerbie, Dumfriesshire—Dr Arthur Mitchell, 1865.

18. Rapier-shaped Dagger-blade, 8⅛ in. long, imperfect at butt, from Den Shilt, Auchtermuchty, Fifeshire—Purchased 1874.

19. Dagger-blade, 7½ in. long, with three rivet-holes, rivets still in place, locality unknown—Purchased, Nunraw Sale, 1876.

20. Dagger-blade, 7 in. long, with vandyke ornamentation on base, and with two rivet-holes and rivets, said to have been found at Pitcaithly, Perthshire—*Bell Collection.*

21. Dagger-blade, 6¼ in. long, with two parallel incised lines on each side of the midrib, and two rivet-holes with rivets, from Kilrie, near Kinghorn, Fifeshire—Mr Prentice, 1828.

22. Dagger-blade, 7 in. long, with two rivet-holes with rivets, from Gretna, Dumfriesshire—R. W. Cochran-Patrick, 1886.

23. Rapier-shaped Dagger-blade, 11⅝ in. long, imperfect at butt, from Graden, Roxburghshire—Purchased 1886.

24. Broad Dagger-blade, 10½ in. long, with three rivet-holes and rivets, locality unknown—Purchased 1887.

25. Rapier-shaped Blade, 10¾ in. long, imperfect at butt, with traces of three rivet-holes, from Kilham, Bowmont Water, Foot of the Cheviots—Purchased 1889.

BRONZE DAGGER AND KNIFE BLADES.

[From other Countries.]

In Wall Case, North Side of Second Floor.

DK 1–31. Dagger-blades, broad and narrow, with and without rivet-holes, from Ireland—*Bell Collection.*

32–38. Socketed Knife or Dagger-blades, from Ireland—*Bell Collection.*

39. Dagger, ribbed, 6¾ in. long, found near Kirkdale Caves, Yorkshire—Sir George Cayley, 1831.

BRONZE LEAF-SHAPED SWORDS, &c.

In Floor Case, First Floor, South Side.

[Bronze swords are usually more or less leaf-shaped, with a flat handle-plate pierced by rivet-holes for the attachment of side-pieces of bone, horn, or wood to make up the round of the grip. They are always without guards, and the cutting edge is a narrow strip along the whole margin hammered down till it is almost as thin as paper. They vary greatly in length, the longest in the collection measuring 30½ in., while the shortest are only 18 to 20 in. As a rule they are destitute of decoration, though some have a raised, or (as in one case) a circular midrib. Others have the hilt in one piece with the blade, the free end terminating in a globose pommel. Scabbard tips of thin bronze

have been occasionally found, the upper part having been apparently of more perishable material. No examples of the moulds in which these swords were cast have yet been found in Scotland. Bronze swords are not found with interments in Great Britain. Like the cored axes and spear-heads they belong to the latter part of the Bronze Age.]

DL **1**. Sword, 25½ in. long, with modern bronze handle-plates riveted with iron, from Graham's Dyke, near Carron, Stirlingshire—*Advocates' Collection.*

2. Sword, 25⅛ in. long, two rivet-holes and slot in each wing and long slot in the hilt-plate, from Forse, Latheron, Caithness—George Sutherland, 1855.

3. Sword, 27 in. long, rivet-hole in each wing and two in hilt-plate, from South Uist, Hebrides—John Gordon, 1865.

4. Sword, 24⅜ in. long, imperfect at point, three rivet-holes in each wing, four with rivets, two rivet-holes in the hilt-plate also with rivets, and other two rivet-holes in the extremity of hilt-plate, which is doubly hooked, from the Tay, near Elcho, Rhynd, Perthshire—David Bennet, 1865.

5. Sword, 29 in. long, two rivet-holes in each wing and two in hilt-plate, which is doubly hooked, from the Tay, near Perth—Purchased 1877.

6, 7. Sword, 21¾ in. long, imperfect at point, rivet-hole in each wing and two in hilt-plate, and (**7**) bronze scabbard tip, found with gold ornament (FE 7) and bronze penannular brooch (FC 153) in digging a gravel pit at Gogar Burn, Edinburgh—Mrs Bell, 1866.

8–10. From Cauldhame, near Brechin, Forfarshire, viz.—(**8**) sword, 21½ in. long, hilt imperfect, two rivet-holes in each wing and two in hilt-plate; (**9**) scabbard tip; (**10**) sword, 23⅝ in. long, the point of the blade and pommel end of handle imperfect, two rivet-holes in each wing, and three in hilt plate, one with rivet—Treasure Trove, 1853.

DL 9.

11. Sword, 24⅛ in. long, two rivet-holes in each wing and three in hilt-plate, locality unknown.

12. Sword, 21¼ in. long, with the handle-plate and the point broken off, locality unknown.

13, 14. Swords, viz.—(**13**) 23⅜ in. long, three rivet-holes in each wing and three in hilt-plate, the pommel end slightly imperfect, (**14**) 20½ in. long, two rivet-holes in each wing and three in hilt-plate, both without localities—*Sim Collection.*

15. Sword, 24½ in. long, three rivet-holes in each wing and three in hilt-plate, locality unknown.

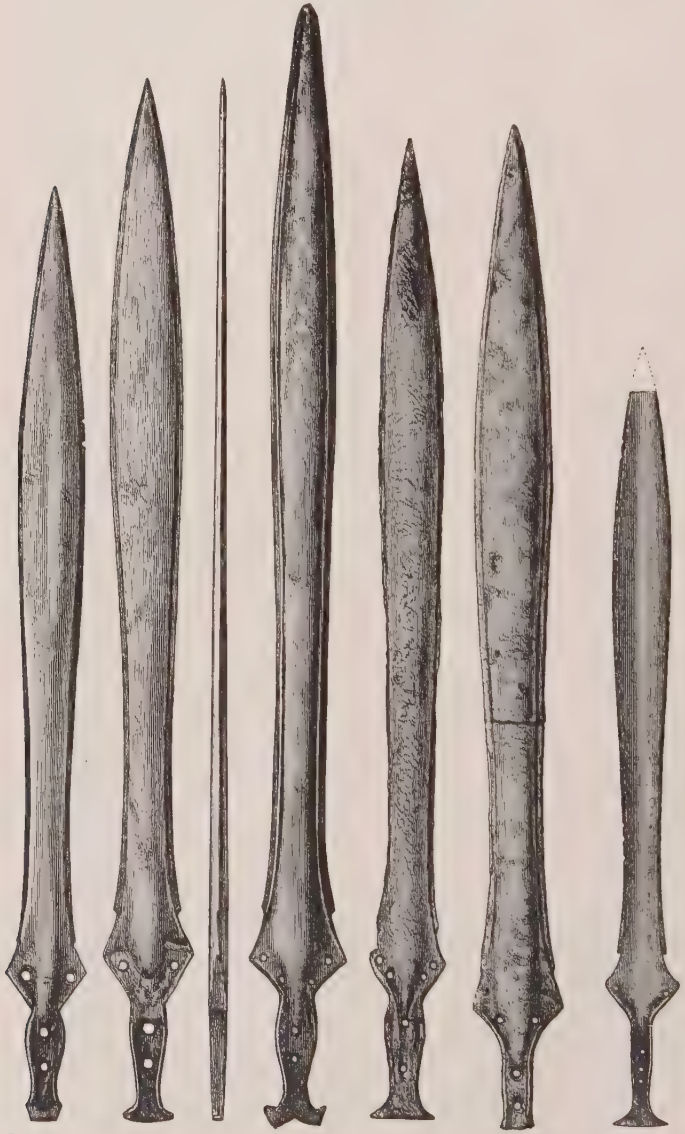
16. Sword, 24½ in. long, rivet-hole in each wing and two in hilt-plate, found near Keith House, East Lothian—Lady Hope Johnstone, 1882.

17. Sword, 14⅛ in. long, the hilt broken off, rivet-hole in each wing, from Eastertoun, Stracathro, Forfarshire—Rev. Dr Thomas Guthrie, 1838.

18, 19. Swords, viz.—(**18**) 25⅞ in. long, two rivet-holes in each wing and two in hilt-plate, (**19**) 17⅜ in. long, imperfect at point, rivet-hole in each wing and two in hilt-plate, both from Jacksbank, Glenbervie, Kincardineshire—John Burnett, 1880.

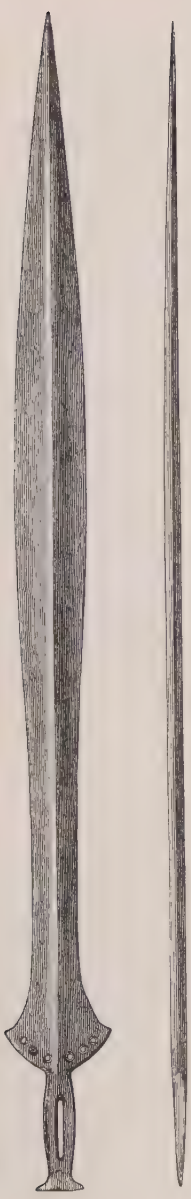
20. Sword, 22⅞ in. long, part of handle-plate broken off, two rivet-holes in

DL each wing, one with rivet, from Southfield, Gladsmuir, East Lothian—A. G. Fowler, 1889.



DL 16. DL 3. DL 5. DL 18. DL 36. DL 26.

DL



DL 41.

DL 42.

DL 21. Sword, 21⅛ in. long, three rivet-holes in each wing and one in hilt-plate, pommel end of handle broken off, from Island of Shuna, Argyllshire—Robert Thomson, 1875.

22, 23. Swords, viz.—(**22**) 19⅞ in. long, rivet-hole in each wing and one in hilt-plate, point broken off; (**23**) 21⅞ in. long, the point and greater part of handle-plate broken off, two rivet-holes in each wing, one with rivet, part of hoard found at Palmerston Place, Edinburgh—Andrew Waddell, 1879.

24. Sword, 18 in. long, rivet-hole in each wing and three in hilt-plate, pommel doubly-hooked, from near Schivas House, Methlick, Aberdeenshire—A. T. Irvine, 1834.

25. Sword, 15½ in. long, handle-plate broken off, rivet-hole in each wing, locality unknown.

26. Sword, 20¼ in. long, point broken off, three rivet-holes in each wing, four of which are imperfectly cast and imperforate, and three in hilt-plate, from Carlinwark Loch, Kirkcudbrightshire—D. A. Gordon, 1873.

27. Sword, 23 in. long, rivet-hole in each wing and one in hilt-plate, from Moss of Cowie, near Stonehaven, Kincardineshire—George Silver, 1812.

28. Sword, 18¾ in. long, two rivet-holes in each wing, handle-plate and point broken off, locality unknown.

29. Portion of Sword, 6½ in. long, "found in a Cairn at Ballagan, Strathblane, Stirlingshire"—John Erskine, 1788.

30. Portion of Sword, 10½ in. long, from Dumfriesshire—Dr Arthur Mitchell, 1865.

31. Portion of Sword, 10½ in. long—Mr M'Lean, 1783.

32-35. Portions of Swords, localities unknown—*Sim Collection.*

36. Sword, 26 in. long, pommel end imperfect, rivet-hole in each wing and two in hilt-plate, from Skye—R. W. Cochran-Patrick, 1886.

37. Sword, 28¾ in. long, with high convex rib along centre of blade on each side, and oblong slot in each wing and two in hilt-plate, from Rigg, Isle of Skye—Capt. William Stewart, 1887.

38. Sword, 26½ in. long, rivet-hole in each wing and two in hilt-plate, found with No. 37 at Rigg, Isle of Skye—Purchased 1886.

39. Sword, 23¼ in. long, the greater part of handle-plate broken off, two rivet-holes in each wing, from Dowies Burn, Wigtownshire—Sir Herbert Eustace Maxwell, Bart., 1889.

40. Sword, 23¼ in. long, two rivet-holes in each wing, one with a rivet in it, and large slot in handle-plate, from Poldar Moss, Stirlingshire—Purchased 1888.

41. Sword, 30½ in. long, three rivet-holes in each wing and large slot in hilt-plate, from the Tay, near Mugdrum Island—Purchased 1889.

42. Sword, 25 in. long, with bronze grip and globular pommel, from Leadburn, Peeblesshire—Purchased 1890.

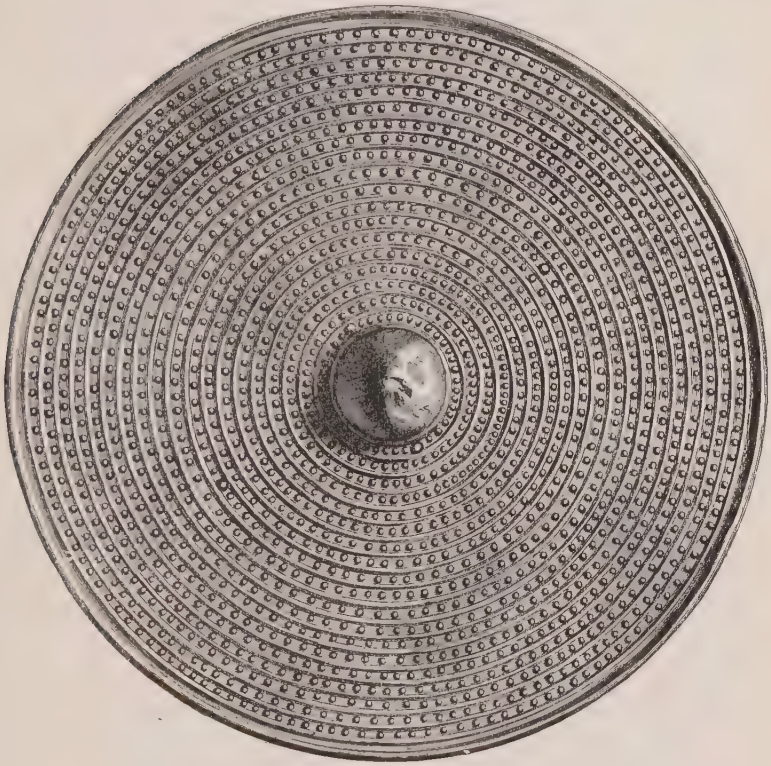
BRONZE LEAF-SHAPED SWORDS.

[From other Countries.]

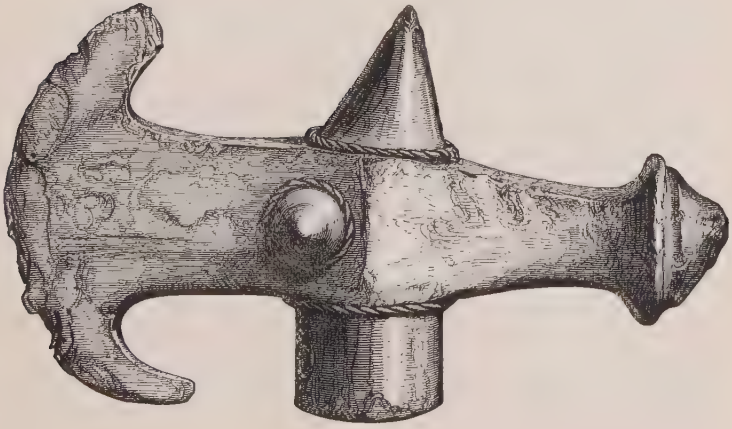
In Wall Case, North Side of Second Floor.

DM 1-43. (**1-34**) Swords and fragments, viz.—(**1-18**) swords, (**19-34**) fragments, all from Ireland—*Bell Collection;* (**35-40**) rapier-shaped swords, from Ireland—*ibid.;* (**41**) sword, 18½ in. long, four rivet-holes, one with rivet, from Brompton, Yorkshire—Sir George Cayley, 1831; (**42, 43**) swords, 20⅞ and 22⅛ in. long, handles of both imperfect, from Co. Antrim, Ireland—Sir Herbert Eustace Maxwell, Bart., 1889.

DN



DN 1.



DN 3.

BRONZE SHIELDS, &c.

In Floor Case, First Floor, South Side.

[The circular shields of thin bronze with a central boss, and a series of concentric rings with rows of smaller bosses or studs between them extending to the circumference, are beautiful specimens of hammered work. The head of the battle-axe found at Bannockburn is probably of the early Iron Age.]

DN 1-2. Circular Shields, 23½ and 24 in. diameter, the upper surface covered with raised concentric circles and rows of knobs, found near Yetholm, Roxburghshire—Purchased 1863.

3. Head of Battle-axe of Bronze, found at Bannockburn, Stirlingshire—Robert Mayne, 1850.

BRONZE IMPLEMENTS, ORNAMENTS, &c.

In Floor Case, First Floor, South Side.

[The implements of bronze which are neither axes nor weapons are placed in this class, along with the penannular rings and other articles of personal decoration and use. The implements consist of sickles, gouges, chisels, &c., and the ornaments chiefly of penannular armlets. There are also trumpets, an anvil, a tanged knife or razor with two semicircular blades, pins, and harness rings. Most of these objects belong to the Bronze Age, but few, if any of them, except the pins, are found with interments.]

DO 1. Cast of Bronze Sickle, 5 in. long, found in the Tay, near Errol.

2. Sickle, 4 in. long, from Edengerach, Premnay, Aberdeenshire—Robert Farquharson, 1868.

3. Socketed Gouge, 3 in. long, from the Tay—Prof. Daniel Wilson, 1863.

4. Socketed Chisel, 3⅛ in. long—*Sim Collection.*

5. Conical Ferrule, 3 in. long, found near Edinburgh—Purchased 1881.

6. Tanged Blade, 4 in. long, from Nordhouse, Sulem, Northmavine, Shetland—R. Sinclair, 1876.

7. Chisel-shaped Implement of peculiar form, 4⅞ in. long, locality unknown—P. Collier, 1878.

8. Implement, 3½ in. in length, with two semicircular blades, from Kinleith, Currie, near Edinburgh—Dr J. A. Smith, 1863.

9. Curved Implement of very rare form, found with a sword, spear-heads, and bronze pins at Sleat, Skye—H. M'Culloch, 1850.

10. Tube, 3½ in. long by ½ in. diameter, one end expanded like mouthpiece of a trumpet, with loop on one side—Rev. J. Morrison, 1872.

11. Ring, 1½ in. diameter—Rev. J. Jeffrey, 1857.

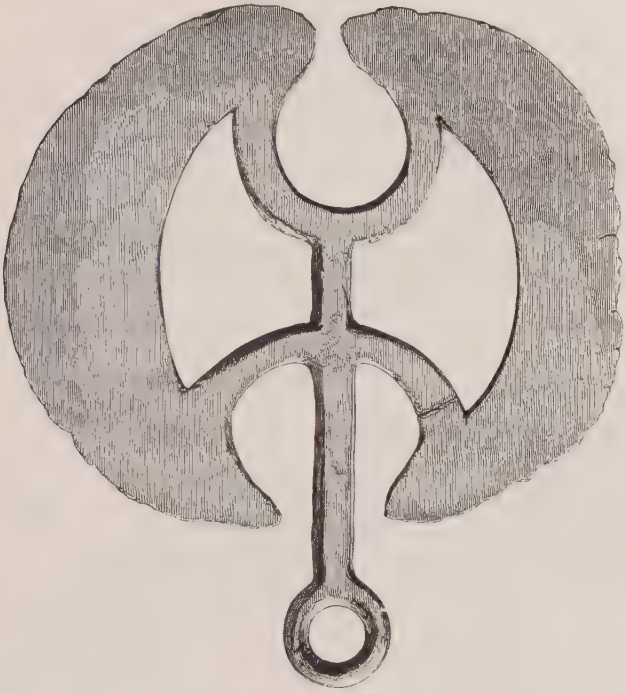
12. Ring, 2½ in. diameter, found near Elphinstone Tower, Haddington—James Drummond, 1860.

13. Flattened Ring, 2 in. diameter, from Ruthven, Perthshire—P. O. Ogilvy, 1864.

14. Ring, 2½ in. diameter, from Knock of Crieff, Perthshire.

15. Stud, from a tumulus near Dunbar—E. W. A. D. Hay, 1846.

DO 16. Penannular Ring, 2½ in. diameter, from Conage, Pettie, Inverness-shire—Lady Dick Lauder, 1862.



DO 8.

17. Penannular Ring, 3 in. diameter, from a stone cist, near Preston Tower, East Lothian.

18. Pin, imperfect, 1⅝ in. long, from a cist at Torran Dubh, Eddertoun, Ross-shire—Rev. J. M. Joass, 1866.

19. Portion of Melted Bronze, from Auchendoir, Aberdeenshire.

20. Penannular Ring with trumpet-shaped ends, from Poolewe, Ross-shire—Sir Kenneth Mackenzie, 1881.

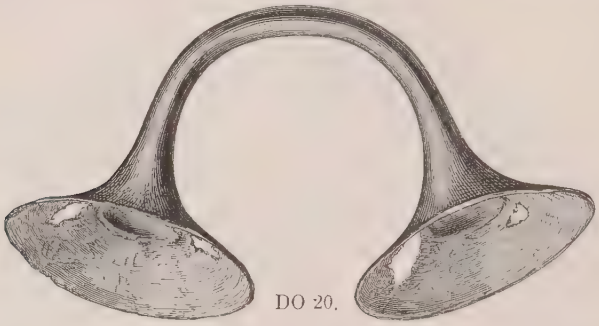
21. Spiral Coil of Wire, from a moss at Carradale, Kintyre.

DO 9.

22–25. Rings, &c., viz.—(**22**) penannular armlet, (**23–25**) rings, localities unknown—*Sim Collection.*

26. Ring, patinated, 1⅜ in. diameter, from Ulbster, Caithness—R. I. Shearer, 1870.

DO 27. Portion of Trumpet with orifice at one side, from Innermessan, Inch, Wigtownshire—Sir H. E. Maxwell, Bart., 1888.

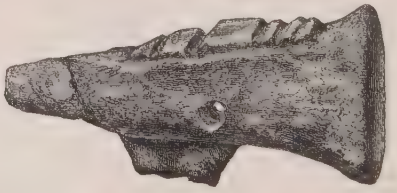


DO 20.

28. Bracelet, the ends terminating in snake-heads, from Fell of Barhullion, Glasserton—Sir H. E. Maxwell, 1889.

DO 29.

29. Sickle, 5¼ in. long, single fluting on blade, socket 2⅜ in. long, from Dores near Inverness—Purchased 1890.



DO 30.

30. Anvil, 4 in. long, from Kyle of Oykel, Sutherlandshire—Deposited by the Duke of Sutherland, 1891.

BRONZE IMPLEMENTS, ORNAMENTS, &c.

[From other Countries.]

In Table Case, at Entrance Door, Second Floor.

DP 1-22. Viz.—(**1-4**) bronze rings, from 1 to 2¼ in. diameter—*Bell Collection;* (**5**) bronze sickle, imperfect, from Ireland—*ibid.;* (**6-9**) socketed gouges—*ibid.;* (**10**) socketed chisel—*ibid.;* (**11**) torc, 4⅜ in. diameter, with recurved ends—*Sim Collection;* (**12-17**) bronze pins, one 12½ in. long, another 10½ in. long, the remainder imperfect, all with flat circular heads and central bosses—*Bell Collection;* (**18, 19**) large rings, each interlinked with one smaller one—*ibid.;* (**20**) knob-like ornament of bronze—*ibid.;* (**21**) portion of a ring, 3 in. diameter, from Curragh of Kildare, Ireland—J. C. Roger, 1856; (**22**) large knife-like blade, 11 in. long, with waved outline, thick back and notched tang, probably from Switzerland.

HOARDS OF BRONZE ARTICLES.

In Floor Case, First Floor, South Side.

[The specimens included in this class are those implements, weapons, and ornaments of bronze which have been found together in hoards deposited in the soil. These hoards, which are not sepulchral, are characteristic of the later period of the Bronze Age, and the objects of which they chiefly consist are of types not usually found associated with interments in Britain. They are principally socketed axes, spear-heads, swords, daggers (of a different type from the knife-daggers associated with interments), socketed knives, gouges, penannular rings or armlets, harness rings, caldron rings, &c.]

DQ 1-44. Ring of large Caldron, fragments of Spear-heads, Swords, and Dagger-blades, found with human remains and bones of animals in Duddingston Loch, near Edinburgh, in 1780—Sir Alexander Dick, 1780.

45-49. From Islay, viz.—(**45**) broad dagger-blade, 10 in. long; (**46**) spear-head, 6¼ in. long; (**47-48**) socketed axes, 3⅜ and 3½ in. long; (**49**) flanged axe, 3½ in. long—all imperfect—Purchased 1881.

50-65. From Monmore, Killin, viz.—(**50**) spear-head, 10¼ in. long, leaf-shaped; (**51-52**) socketed axes, 4¼ × 2¼ and 2⅝ × 2 in.; (**53**) part of the hilt-end of small leaf-shaped sword, 5⅜ in. long; (**54**) socketed gouge, 2¾ in. long; (**55**) circular hollow ring, 2¾ in. diameter; (**56**) penannular ring with expanded ends, 2¾ in. diameter; (**57-65**) rings from 1¼ to 2⅜ in. diameter—Charles Stewart, 1882.

66-69. From tumulus at Bowerhouses, near Dunbar, viz.—(**66-68**) thin, bifid blades with tangs; (**69**) socketed axe—A. Seton, 1827.

70-72. From Rehill, Premnay, Aberdeenshire, viz.—(**70-71**) bracelets, 2⅝ and 2⅞ in.; (**72**) socketed axe, 3¼ × 2½ in.—part of hoard of axes and rings—Dr John Stuart, 1853.

73-77. From Inshoch, Nairn, viz.—(**73**) hollow ring, 3 in. diameter; (**74-75**) spear-heads, 9 in. long, one imperfect; (**76, 77**) socketed axes, 3½ × 2⅜ and 2½ × 1⅝ in.—Rev. John Grant, 1782.

78-82. From Castlehill, Forfar, viz.—(**78**) spear-head, 6½ in. long, with two bands of parallel lines round socket; (**79-82**) axes, viz.—(**79**) 4⅞ × 1⅜ in., with four parallel lines round the neck; (**80**) 3⅝ × 1⅝ in.; (**81**) 3⅛ × 2⅝ in., with recurved points; (**82**) 3⅛ × 2⅛ in., with oval socket—Andrew Jervise, 1855.

DQ

DQ 50–53 and 55.

DQ 83–88. From cairn at Highfield, near Dingwall, viz.—(**83–86**) axes—(**83**), $3\frac{1}{4} \times 2\frac{1}{4}$ in.; (**84**) $4\frac{1}{8} \times 3$ in., with three parallel incised lines round neck; (**85**) $4 \times 2\frac{3}{8}$ in., with raised band round neck; (**86**) $3\frac{1}{4} \times 2\frac{1}{2}$ in.; (**87**,

DQ 66–69.

DQ 78–81.

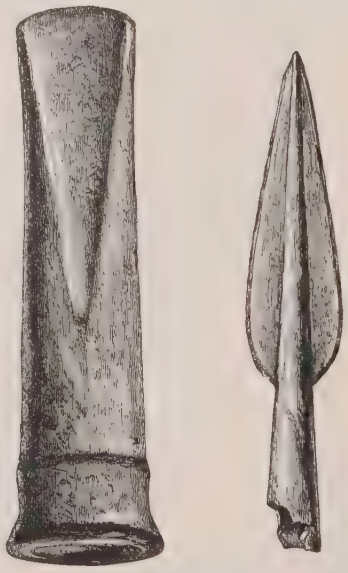
88) spear-heads, $4\frac{1}{2}$ in., imperfect, and $7\frac{1}{2}$ in. long, imperfect—George Gillanders, 1781.

89–91. From Arthur's Seat, Edinburgh, viz.—(**89**) socketed axe, $3\frac{5}{8} \times 2\frac{3}{8}$ in.

DQ with two parallel lines round neck; (**90**, **91**) swords, 24½ and 26 in. long —Treasure Trove, 1846.

92-98. From Kilkerran, Ayrshire, viz.—(**92-94**) socketed axes, 3¼ × 2¼, 2¾ × 2⅛, and 3¼ × 2¼ in.; (**95**, **96**) fragments of sword riveted together; (**97**, **98**) large rings attached to staples—Sir Charles D. Ferguson, Bart., 1846.

DQ 106.



DQ 116, 117.

99-102. From cairn at Fotrie, Balnoon, Inverkeithny, Banffshire, viz.—(**99**) button; (**100**) portion of socketed implement; (**101**) hollow ring, 1½ in. diameter; (**102**) portion of pin—Dr John Stuart, 1853.

106-115. From Auchtyre, Elgin, viz.—(**106**, **107**) spear-heads, imperfect, 11½ and 8¼ in. long; (**108**) socketed axe, 3¼ × 1⅝ in.; (**109**) fragments of ring of tin; (**110-115**) armlets, four imperfect—Treasure Trove, 1874.

116, **117**. From Torran, Ford, Loch Awe, viz.—(**116**) spear-head, 10⅜ in. long, with two holes in socket; (**117**) socketed gouge, 3 in. long, with raised band round the mouth—J. M. Strachan, 1885.

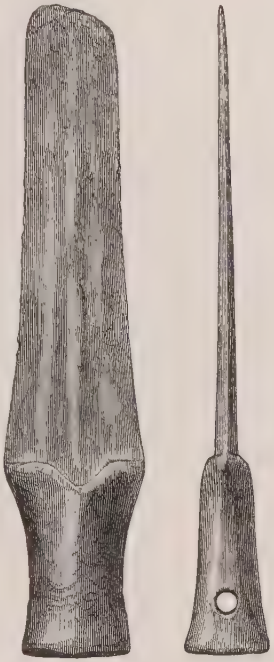
118, **119**. Portions of Bronze Sword and Plain Ring, from Kelton, Kirkcudbrightshire—Rev. Dr C. J. Cowan, 1885.

120-122. Axes, flanged, from Bridge of Allan Road, near Old Stirling Bridge, viz.—(**120**) 5⅞ × 2⅜ in.; (**121**, **122**) 5⅞ × 2¼ in.—Purchased 1885.

DQ 123–125. Axes, from Ayrshire, viz.—(**123**) flat, $5\frac{5}{8} \times 2\frac{7}{8}$ in.; (**124**) flanged, 5×2 in.; (**125**) socketed, $2\frac{5}{8} \times 2$ in.—Purchased 1885.

126–128. Axes, from Taynuilt, Argyllshire, viz.—(**126**) flat, $5\frac{1}{2} \times 2\frac{3}{4}$ in.; (**127**) flanged, $5\frac{1}{8} \times 1\frac{5}{16}$ in.; (**128**) socketed, $2\frac{9}{16} \times 1\frac{5}{16}$ in.—Sir H. E. Maxwell, Bart., 1888.

129, 130. Axe, socketed, $3\frac{7}{8} \times 2\frac{9}{16}$ in., and socketed dagger, $6\frac{3}{8}$ in. long, with rivet-hole in socket and a midrib on each side of blade, from Forfar—Purchased 1888.



DQ 130.

131–193. Ploughed up at Balmashannar, Forfarshire, viz.—(**131**) upper end of socketed axe with loop; (**132**) vessel of cast bronze, $3\frac{1}{2}$ in. high, $4\frac{1}{2}$ in. diameter, imperfect; (**133–144**) penannular armlets, from $1\frac{7}{8}$ to $2\frac{7}{8}$ in. diameter; (**145–154**) plain rings, from $\frac{3}{4}$ to $3\frac{1}{2}$ in. diameter, one imperfect; (**155–157**) penannular rings, $\frac{5}{8}$ in., $1\frac{3}{16}$ in., and $\frac{7}{8}$ in. diameter, consisting of thin exterior plate of gold enclosing a copper core; (**158–161**) capsules, of penannular form, of thin plates of gold, 1 in. diameter, one imperfect; (**162–192**) beads of amber; (**193**) portions of clay vessel in which the articles were probably contained—Treasure Trove, 1892.

HOARDS OF BRONZE ARTICLES.

[From England.]

In Wall Case, North Side of Second Floor.

DR 1–5. From Newbiggin, Northumberland, England, viz.—(**1**) leaf-shaped spear-head, 10 in. long, imperfect, with beading on each side of midrib; (**2**) leaf-shaped spear-head, 9 in. long; (**3**) socket and part of midrib of leaf-shaped spear-head; (**4**) leaf-shaped blade of spear-head; (**5**) socketed knife, $6\frac{1}{2}$ in. long, with narrow blade broken in two, rivet-hole in socket at right angles to the blade—Dr David Page, 1883.

MASSES OF CRUDE BRONZE.

In Floor Case, South Side of First Floor.

DT 1. Round, Flat Cake, $8\frac{1}{2}$ in. diameter, weighing 36 lbs., from Carleton, Glasserton, Wigtownshire—Treasure Trove 1881; (**2**) ingot, $9 \times \frac{3}{4} \times \frac{1}{4}$ in., from the Forth at Cambuskenneth—Alexander Laing, 1875.

BRONZE CALDRONS, &c.

In Floor Case, South Side of First Floor.

[These large spheroidal caldrons or cooking vessels made of sheets of thin bronze riveted together, and having rings and staples inserted in the margin for suspension, are almost as remarkable specimens of workmanship in hammered metal as the bronze shields. They have been found with hoards of bronze, and even of iron, implements, indicating that they belong to the later portion of the Bronze Age. They have been found in Scotland, England, and Ireland, but not on the Continent of Europe.]

DU 1. Caldron formed of thin plates of bronze riveted together, 25 in. diameter, by 16 in. high, from Kincardine Moss, Stirling—John Ramsay, 1782.

2. Caldron, 25 in. diameter by 14 in. high, the rivets with ornamental conical heads, from West of Scotland—*Leckie Collection.*

3. Vessel, 12 × 6 in., probably the West of Scotland—*Sim Collection.*

4. Large Ring and Staple from a Caldron, locality unknown.

5. Caldron, 20 in. diameter by 10 in. high from moss at Kyleakin, Isle of Skye—Purchased 1884. (See ME 167.)

6. Caldron, 15 in. diameter by 8¼ in. high, from Whitehills Moss, Lochmaben, Dumfriesshire—Purchased 1889.

BRONZE CALDRONS, &c.

[From Ireland.]

In Floor Case, South Side of First Floor.

DV 1-5. Viz.—(**1**) caldron of brass, 14½ × 9 in., from bog in Loughrys, Tyrone, Ireland; (**2**, **3**) rings and staples of large caldrons—*Bell Collection;* (**4**, **5**) pots of thin bronze, with long flat handles, 6½ × 8½ and 6 × 6½ in., from Castle Derg, Tyrone, Ireland—*Leckie Collection*, Purchased 1855.

BRONZE CALDRONS WITH HOARDS OF IRON IMPLEMENTS, &c.

In Floor Case, South Side of First Floor.

DW 1-86. From Carlinwark Loch, Kirkcudbrightshire, viz.—(**1**) caldron, 25 × 18 in., of thin plates of bronze riveted together, when found it contained (**2**) fragments of chain-mail; (**3**) portion of small bronze vessel; (**4**, **5**) adze and axe-head of iron; (**8-14**) four hammers and fragments; (**15**) anvil; (**16**, **17**) portions of saws; (**18-25**) portions of double-edged sword-blades; (**26**, **27**) small double-edged tanged blades; (**28**) knife-blade; (**29-32**) fragments of single-edged blades; (**33**, **34**) fragments of tanged blades; (**35**) fragment of bent tanged blade; (**36**) fragment of blade; (**37-43**) punches; (**44**) fragment of hook; (**45**) fragment of small socketed implement; (**46**) file; (**47**) hinge; (**48-52**) portions of handles; (**53**) circular tripod stand; (**54-60**) four double and three single hooks; (**61**) staple; (**62**) hinge, imperfect; (**63-67**) eyes for hooks; (**68-73**) rivet staples; (**74**) ring and hook; (**75**) ring; (**76**) snaffle horse-bit; (**77**) a key handle; (**78**) wooden handle; (**79**) wooden core with bronze mounting; (**80**) bronze handle; (**81**) bronze hook; (**82**) iron nails and rivets; (**83**) portion of square iron bar, partly worked; (**84**) fragment of

DU

DU 1, 2.

DW hoop iron, perforated; (**85**) scraps of bronze and iron; (**86**) gridiron of iron bars with two feet—Samuel Gordon and J. T. Blackley, 1866.

DW 1.

87–158. Dug up in draining near Cockburnspath, Berwickshire, viz.—(**87**, **88**) bronze caldrons, 13 and 21 in. diameter, together with the following articles of iron, etc., contained in one of them, viz.—(**89**) bronze bowl, 6¾ in. diameter; (**90**) lump of bronze; (**91**) perforated bronze disc; (**92**, **93**) bronze ornaments; (**94**, **95**) large iron rings and staples; (**96**) fragments of iron hoops; (**97**) large iron chain with spiral ornamented double hooks at the end; (**98**) fragment of hook similar to 97; (**99**) under shell of iron crusie; (**100**) iron adze; (**101**, **102**) iron picks; (**103**, **104**) iron socketed gouges; (**105**) iron socketed pointed tool; (**106**) iron billhook-like socketed tool; (**107**) iron sickle-like implement with wooden handle; (**108**, **109**) iron mountings of two turf-spades; (**110**) iron hollow tubular handle; (**111**) portion of bridle-bit; (**112**) iron bolt with mandrill still in the hole; (**113**) iron mounting of wooden plough; (**114**, **115**) portions probably of the same implement; (**116**) small iron bolt with pyramidal head, the other end hooked; (**117**) key; (**118**, **119**) large fragments of round iron rod; (**120**) large iron key nail; (**121**) portion of spring; (**122**) iron foot of pot (?); (**123**) key nail; (**124**, **125**) ferrules; (**126**) staple; (**127**) large clasp-hook; (**128**) flat double-end holdfast; (**129–135**) fragments of iron, some perforated; (**136–143**) portions of staples with spiked ends; (**144**) unfinished blades or punches; (**145**) fragments of rasps (?); (**146**) broken chain link; (**147**) broken nails; (**148**) fragment of iron vessel; (**149**) iron tang of buckle; (**150**) portion of flat iron ring; (**151**, **152**) fragments of bent implements with loops; (**153**) bent implement with spindle at each end and hole in the centre; (**154**, **155**) implements, 4½ in. long; (**156**) fragment of thin iron, 8 in. long; (**157**) iron object, probably a hinge; (**158**) portion of bent iron with spike hammered at one end—W. W. Hay Newton, 1852.

CINERARY URNS OF CLAY.

In Floor Cases on First Floor, North Side.

[The large sized clay vessels with plain conical under part and ornamented upper part are cinerary urns which have accompanied interments after cremation. The burnt bones carefully gathered up from the funeral pile were placed in the urn, which was deposited in an upright position within a cist of stones, or at the bottom of a cavity made in the ground to receive it, and the mouth covered over with a thin flat stone; or the burnt bones were merely placed in a heap upon a flat stone, or on the bottom of the cavity, and the urn placed over them in an inverted position. These vessels belong to the Bronze Age of the British Isles, and are only known as sepulchral. Their ornamentation, which is very simple and effective, consists almost entirely of combinations of straight lines impressed into the clay before it was fired.]

EA 1. Urn, 9 × 7 in., from Drumsargard, Cambuslang—Purchased 1883.

EA 2.

2. Urn, 15½ × 12 in., finely ornamented, from Glenballoch, New Rattray, Perthshire—George Harris, 1881.

EA 3. Urn, 12 × 11 in., containing burnt bones, found with unburnt bones in a cist in Saxe-Coburg Place, Edinburgh—Joseph Gordon, 1823.

4. Urn, 13 × 11 in., containing burnt bones, found, inverted, at Abden, Kinghorn, Fife—W. B. Johnstone, 1848.

5. Urn, 11½ × 12 in., lip ornamented with finger impressions, locality unknown.

6. Urn, 14 × 12 in., from Birseley, near Prestonpans—Rev. John Struthers, 1880.

EA 27.

7. Urn, 12½ × 10 in., with overhanging rim, from Alloa, Clackmannanshire—Robert Bald, 1828.

8. Urn, 14 × 11½ in., ornamented with zigzag lines and punctures.

9. Urn, 11½ × 10 in., with overhanging rim, from Dean Bridge, Edinburgh—A. D. Hay, 1827.

10. Urn, 14 × 13½ in., with zigzag moulding and circular projections, and with small holes in the rim, from Alness—A. Mackenzie, 1881.

11. Urn, 12½ × 11 in., from Bridge of Banff—Treasure Trove, 1864.

12. Urn, 13 × 12½ in. from Forcraik, Borthwick, Mid-Lothian—Earl of Buchan, 1815.

EA 13. Urn, $13\frac{1}{2} \times 13\frac{1}{2}$ in., with projecting ornaments, found, inverted, at Newton, Montblairy, Banffshire—Alexander Morrison, 1856.

14. Fragments of Urn, found near Montblairy House—*Ibid.*

15. Urn, oval-shaped, $11 \times 17\frac{1}{2}$ in., found with stone urn (EK 9) in Fair Isle—J. Bruce, 1876.

16, 17. Urns, from Shetland, viz.—(16) 14×13 in., from Housegord; (17) imperfect, 11 in. dia., from Flemington—D. D. Black, 1866.

18. Urn, $7\frac{1}{2} \times 6$ in., from Colleonard, near Banff—Treasure Trove, 1859.

EA 30.

19. Urn, 7×6 in., from a tumulus near Eglinton Castle, Ayrshire—Charles Lamb, 1846.

20. Urn, $11 \times 9\frac{1}{2}$ in., found half filled with calcined bones, near Edzell, Forfarshire—William Ayre, 1864.

21. Urn, 14 in. across mouth, imperfect, with Vandyke pattern and projections, from Cairn Curr, Alford, Aberdeenshire—John Stuart, 1864.

22, 23. Urns (restored), found, inverted, at Arniston, Edinburgh—Robert Dundas, 1860.

24. Urn, 13×9 in., with ornamental overhanging rim from Ardoe, Aberdeenshire—A. Ogston, 1871.

25. Urn, $8 \times 5\frac{1}{2}$ in., with overhanging rim, from Windy Goul, Arthur's Seat, Edinburgh—Commissioners of H.M. Works, 1856.

26. Urn, imperfect, 12 in. across mouth, from Pittodrie, Aberdeenshire—Col. K. Erskine, 1864.

27–30. From a Bronze-Age Cemetery at Sheriff-flats, near Thankerton, Lanarkshire, viz.—(27) 13 in. high, with two projecting rings, and broad band of obliquely crossed lines on the upper part; (28) $12\frac{1}{2}$ in. high, imperfect, with projecting ring and groups of obliquely crossed lines; (29) 5 in. high, with triple moulding and irregular ornamentation of incised lines; (30) 6 in. high, with four mouldings underneath the rim—all found with urn (EC 20) and button (EQ 75) at Sheriff-flats—Sir W. Carmichael Anstruther, Bart., 1879.

EA 31-36. From a Bronze-Age Cemetery at Drymmie Wood, Balbirnie, Fifeshire, viz.—(**31**) 7½ in. high; (**32**) 6 in. high, with overhanging rims, ornamented with obliquely crossed lines; (**33**) 4¼ in. high, can-shaped, plain; (**34-36**) fragments of three others, found together with burnt bones—John Balfour, 1879.

EA 39.

37-45. From a Bronze-Age Cemetery at Magdalen Bridge, Joppa, viz.—(**37**) 12¼ × 9 in.; (**38**) 10½ × 7½ in.; (**39**) 16 × 12½ in.; (**40**) 13¾ × 10 in.; (**41**) 12 × 9½ in.; (**42**) 13 × 11 in.; (**43**) 12 × 8½ in.; (**44**) fragment of rim; (**45**) two fragments of rim and body of urn—Dr C. W. Cathcart, William Lowson, and Charles Gordon, 1882.

46. Bottom portion of Urn, 4½ in. dia., 6 in. high.

EA 47. Urn, $7 \times 5\frac{3}{4}$ in., from Carnousie, near Turriff—Dr A. J. Manson, 1882.

48. Bottom portion of Urn, $7\frac{1}{2}$ in. high, $3\frac{1}{2}$ in. dia., found near Dalkeith.

49. Rim of Urn, $9\frac{1}{2}$ in. dia., overhanging and ornamented, locality unknown.

50. Urn, 7×7 in., locality unknown.

51. Urn, $5\frac{3}{4} \times 6$ in., rudely ornamented.

52. Bottom of large Urn, $6\frac{1}{2}$ in. across, locality unknown.

EA 41.

53, 54. Urns, viz.—(**53**) $8\frac{1}{4} \times 6\frac{3}{4}$ in.; (**54**) 12×9 in., from Blacklaw Knoll, Saughland Farm, Ford, Mid-Lothian—William Ronaldson, 1829.

55. Urn, 11×10 in., found near Rhynie, Aberdeenshire—Treasure Trove, 1864.

56. Urn, $12 \times 10\frac{1}{2}$ in., with overhanging rim, ornamented with diagonal lines, from Quarryford, Gifford, East Lothian—Marquess of Tweeddale, 1882.

57. Urn, $3\frac{1}{2} \times 4$ in., from Boroughmuirhead, Edinburgh—R. A. Veitch, 1866.

58. Urn, $6\frac{1}{2} \times 6$ in., plain, from Windyhall, Rothesay—Henry Stewart, 1872.

59–65. Urns, viz.—(**59**) rim of large urn, ornamented; (**60**) $5\frac{1}{4} \times 4\frac{3}{4}$ in.; (**61**) $15\frac{1}{4} \times 9\frac{1}{2}$ in., plain; (**62**) $5\frac{1}{4} \times 4$ in.; (**63**) rim, ornamented; (**64**) $3\frac{5}{8} \times 3\frac{1}{4}$ in.; (**65**) $8\frac{3}{4} \times 6\frac{3}{4}$ in., found with (EC 12, 13) at Westwood, Newport, Fife—Henry Walker, 1866.

EA 66. Urn of hard Brick Clay, $11\frac{1}{2} \times 8\frac{1}{2}$ in., from Seamill, West Kilbride, Ayrshire—Robert Dunn, 1883.

67-105. Fragments of Cinerary Urns, viz.—(**67**) fragment of rim of small urn, ornamented, from Largo; (**68-70**) fragments of urns, localities unknown; (**71**) portions of urns and burnt bones, from a tumulus at Stennis, Orkney; (**72**) fragments of large urn, found with human bones at Tranent—J. Cadell, 1861; (**73**) fragments of urns, from Urquhart, Elginshire—Rev.

EA 56.

James Morrison; (**74**) fragments of urn and boar's tusk, from Rathen, Aberdeenshire—Royal Society, 1860; (**75**) fragment of urn, ornamented with circular impressions, from Burreldales, Auchterless, Aberdeenshire; (**76**) fragment of urn and bones, from Burntisland, Fife; (**77**) fragments of cinerary urn—E. W. A. D. Hay; (**78**) fragment of cinerary urn—*Sim Collection;* (**79**) portion of rim of large urn, ornamented with projecting parallel bars, rudely sloping lines, and zigzag ornamentation, from Glen Cloy, Arran—Dr Jamieson, 1863; (**80-101**) fragments of urns showing ornamentation, localities unknown; (**102, 103**) fragments of two cinerary urns, from Bognie, Aberdeenshire; (**104**) fragments of cinerary urn and bones, from Ferniestripe, near Slap, Turriff—J. Ledingham, 1875; (**105**) fragments of urn, locality unknown.

106. Urn, $12\frac{1}{4} \times 8\frac{1}{4}$ in., restored, ornamented with impressed zigzag lines, from Kipps, Torphichen, Linlithgowshire—Professor Duns, D.D., 1884.

107. Urn, $13\frac{1}{2} \times 10\frac{1}{2}$ in., restored, ornamented with impressed lines round the lip, found near Shanwell House, Milnathort, Kinross-shire—Miss Coventry, 1885.

EA 108, 109. Urns, from Uddingston, Bothwell, Lanarkshire, viz.—(**108**) $13\frac{3}{4} \times 11\frac{1}{4}$ in., ornamented on upper part with band of raised zigzags and bosses; (**109**) $12\frac{1}{2} \times 9\frac{1}{2}$ in., ornamented with impressed lines and zigzags above the shoulder—Robert Thomson, 1885.

110. Urn, imperfect, $10\frac{1}{4} \times 11\frac{1}{2}$ in., from North Hill of Shapinsay, Orkney—Colonel David Balfour, 1885.

EA 120.

111. Urn, $16\frac{1}{4} \times 12\frac{3}{8}$ in., ornamented round outside of rim by a lozenge pattern and incised lines, from Easter Gellybank, Kinross-shire—J. R. Haig, 1886.

112. Urn, 14×11 in., with five rows of oval indentations round the upper part, from Mid Torrs, Glenluce, Wigtownshire—Purchased 1886.

113. Urn, $10\frac{1}{4} \times 10\frac{7}{8}$ in., with rows of oblique lines crossing each other and forming lozenge-shaped patterns, found with the small urn EC 25 at Bankfield, Glenluce, Wigtownshire—Earl of Stair, 1886.

114. Urn, $12\frac{1}{2} \times 9\frac{1}{2}$ in., with two raised bands round circumference, from Mid Torrs, Glenluce—Purchased 1886.

115. Rim of large Urn, $12\frac{1}{2}$ in. dia., with raised zigzag band, bosses, and incised lines, from Mid Torrs, Glenluce, Wigtownshire—Purchased 1886.

116. Portion of Cinerary Urn of Black Clay, the rim ornamented alternately

EA with bosses and oblique lines on each side of raised zigzag band, from Torhouskie, Wigtownshire—Rev. George Wilson, 1887.

117. Urn, 11 × 8¾ in., ornamented round the rim by line of zigzag ornament and seven horizontal lines, found filled with calcined bones at Musselburgh—George Lowe, 1887.

118. Rim of Urn, 13½ in. dia., ornamented with groups of three isosceles triangles one within the other, from Mid Torrs, Glenluce, Wigtownshire—Purchased 1888.

119. Urn, 12¼ × 9 in., ornamented round the rim with groups of short parallel straight lines, imperfect, from Inverkeithing, Fifeshire—Purchased 1888.

120. Urn, 16½ × 11½ in., ornamented by three narrow raised bands, and having two small holes pierced through one side at 1½ in. from the lip and 1¼ in. apart, from the Culbin Sands, Elginshire—Purchased 1888.

121. Urn, 16 × 14 in., ornamented with raised zigzag band round the upper part, from Udny, Aberdeenshire—Purchased 1890.

122. Urn, 10⅞ × 8¼ in., ornamented by two raised ribs round the middle, imperfect on one side, and flint strike-light found among the bones in it, from Culbin Sands, Elginshire—Purchased 1889.

123, 124. Urn, 11 × 8½ in., ornamented on outside of rim with lozenge patterns, &c., and fragments of another large urn, from Shandon Crescent, Edinburgh—George Macdonald, 1891.

125–133. From a Bronze-Age Cemetery at Calais Muir, near Dunfermline, viz.—(**125**) 10 × 8½ in., with overhanging rim ornamented with impressed chevrony pattern; (**126**) 8½ × 8 in., with overhanging rim ornamented with groups of vertical and horizontal lines; (**127**) 10½ × 8½ in., ornamented with chevrony band; (**128**) 11¼ × 8 in., with double zigzag lines round rim; (**129**) 14¾ × 12½ in., imperfect on one side, with band of double-line zigzags; (**130**) 9¾ × 8¼ in., imperfect on one side, with zigzag line round the rim; (**131**) upper portion of cinerary urn, 9 in. dia.; (**132**) portion of side 5¾ in. high; (**133**) rim only, 8½ in. dia.—Deposited by Henry Beveridge, 1886. (See also EE.)

CINERARY URNS OF CLAY.

[From other Countries.]

In Wall Case, North Side of Second Floor.

EB 1. Urn, 14½ in. high, ornamented with raised discs, rounded mouldings, and two bands of chevrony ornament, from Ramsford Park, Wexford, Ireland—K. S. Mackenzie, 1877.

2. Urn, 13 × 13 in., with overhanging rim, from Ireland—Thomas Chapman, 1881.

3–7. Urns, viz.—(**3**) 17 × 13 in.; (**4**) 14½ × 13 in.; (**5**) 12 × 11½ in., imperfect; (**6**) 14 × 14½ in.; (**7**) fragment of rim of urn—*Bell Collection.*

8. Fragment of large Urn, from cairn at Roose, Furness, England.

9. Urn, 7½ × 7½ in., upper part broken, with traces of painted pattern on side, containing burnt bones, from Hanover—C. E. Dalrymple.

10. Fragments of several Cinerary Urns—*Bell Collection.*

11–29. Sepulchral Urns of various forms, from Hanover—Purchased 1889.

SMALL CUP-SHAPED URNS.

In Window Case, North Side of First Floor.

[The small cup-shaped urns in this section, which used to be fancifully called Incense Cups, are found usually inside the large cinerary urns of the former section. They are thus always associated with burial after cremation. Many of them have two small holes pierced through the bulge on one or both sides, and some are ornamented on the bottom, as if that were meant to be seen.]

EC 1. Cup, $3\frac{3}{4} \times 3$ in., perforated by two small holes on two sides, locality unknown.

2. Cup, imperfect, from Dighty Water, Monifieth, Forfarshire—Dr Robert Dickson, 1866.

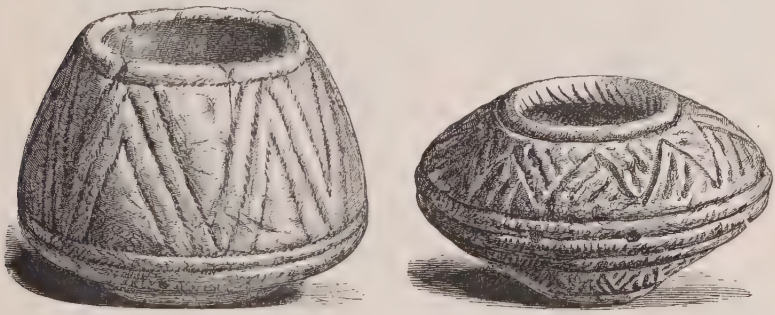
3. Cup, $2\frac{1}{2} \times 3\frac{1}{4}$ in., from Wester Bucklyvie, Fife.

4. Cup, $2\frac{1}{2} \times 2$ in., ornamented, pierced by two holes on one side, found near Dunbar.

5, 6. Cup, $1\frac{3}{4}$ in. high, found within larger urn (of which **6** is a fragment) at Blairgowrie—Rev. Wm. Fraser, 1878.

7, 8. Viz.—(**7**) cup, $2 \times 2\frac{3}{4}$ in., ornamented, and (**8**) fragment of large urn, ornamented, from Craigdhu, North Queensferry, in 1857—David Douglas, 1880.

9, 10. Cups, $2\frac{1}{2} \times 2\frac{1}{4}$ and $1\frac{5}{8} \times 1\frac{3}{4}$ in., ornamented with incised lines, No. 9



EC 9, 10.

pierced by four holes, No. 10 by two, from Benachie Hill, Aberdeenshire—G. R. Kinloch, 1863.

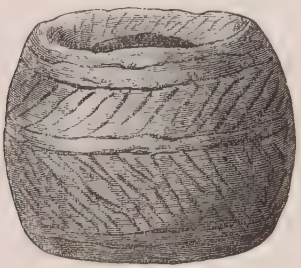
11. Cup, $1\frac{5}{8} \times 2\frac{5}{8}$ in., ornamented, from Arthur's Seat—Professor Daniel Wilson, 1863.

12, 13. Cups, $2\frac{3}{4} \times 2\frac{3}{4}$ and $2\frac{1}{2} \times 3$ in., No. 12 pierced with two holes, No. 13 with one, found with urns (EA 59–65) at Westwood—H. Walker, 1866.

14–17. From Lanarkshire, viz.—(**14**) urn, $3\frac{1}{2} \times 3\frac{1}{4}$ in., ornamented with incised lines and circles; (**15**) $2\frac{1}{8} \times 2\frac{3}{4}$ in., ornamented; (**16**) cup, $1\frac{1}{4} \times 3\frac{1}{4}$ in., with two perforations on one side, and ornamented with incised lines, imperfect, from Coulter; (**17**) fragment, from Cauld Chapel, Lemington—*Sim Collection.*

18. Cup, 2 in. high, with two perforations on one side, found in larger urn at Barnfauld, Threepwood, Beith—J. S. Dobie, 1878.

EC 19. Cup, 2 in. high, with two perforations through the sides, found with urn (EE 48) at Crailing Hall, Jedburgh—Purchased 1874.



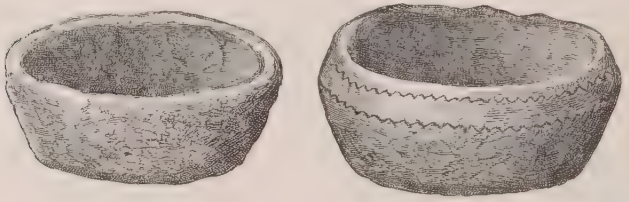
EC 20.

20. Cup, $2\frac{1}{4} \times 3$ in., found with urns (EA 27–30) at Sheriff-flats—Sir W. C. Anstruther, 1879.

21–23. Small Cup-shaped Urns, viz.—(**21**) $2\frac{1}{4} \times 3\frac{1}{4}$ in., (**22**) $1\frac{1}{2} \times 3\frac{1}{4}$ in., (**23**) $2\frac{1}{2} \times 3\frac{3}{4}$ in., localities unknown.

24. Small Vessel (or Crucible), $3\frac{1}{8} \times 3\frac{5}{8}$ in., fractured at the lip, from Wigtownshire—Rev. George Wilson, 1886.

25, 26. Small Cup-shaped Urns, viz.—(**25**) $1\frac{1}{8} \times 2\frac{7}{8}$ in., unornamented, found in cinerary urn (EA 113) from Bankfield, Glenluce—Earl of Stair, 1886; (**26**) $1\frac{1}{2} \times 2\frac{3}{4}$ in., ornamented by two zigzag lines round outside of rim, from Low Torrs, Glenluce—Rev. George Wilson, 1887.



EC 25, 26.

27. Small Cup-like Urn of blackened Clay, $2\frac{1}{4} \times 3\frac{1}{8}$ in., from Kemple Bank, Carfrae—Marquess of Tweeddale, 1889.

SMALL CUP-SHAPED URNS OF CLAY.

[From England and Ireland.]

In Window Case, North Side of First Floor.

ED 1–3. Viz.—(**1**) urn, $2\frac{5}{8} \times 2\frac{3}{4}$ in., ornamented, with two perforations on one side,

ED 2.

found near Penrith, Cumberland—J. Mackinlay, 1860; (**2**) from Killucken, Tyrone; (**3**) unknown—both *Bell Collection.*

URNS OF FOOD-VESSEL TYPE.

In Floor Cases, North Side of First Floor.

[The urns of this section, which are characterised by their want of height in proportion to their width, and by their being often ornamented over the whole surface, are more commonly found with unburnt than with burnt burials. Their purpose has been considered to be that of food vessels, placed beside the dead with an offering of food as a solemn sepulchral rite.]

EE 1. Urn, from cist under cairn at Methlick, Aberdeenshire—Dr John Stuart, 1853.

2. Urn, $4\frac{1}{2} \times 6\frac{3}{4}$ in., elaborately ornamented, locality unknown.

3. Urn, $3\frac{3}{4} \times 4\frac{5}{8}$ in., with zigzag ornamentation, from Yetholm—Purchased 1883.

4. Urn, $5 \times 5\frac{1}{2}$ in., with five projecting knobs, from Beechwood Mains, Corstorphine, Edinburgh—Forbes Minto, 1862.

5. Urn, $3\frac{1}{2} \times 4\frac{3}{4}$ in., with zigzag ornament, from Drumsargard, Cambuslang—Purchased 1883.

6. Urn, $5 \times 5\frac{5}{8}$ in., ornamented, from Kennys-hillock, Urquhart, Elginshire—Rev. Jas. Morrison.

EE 6, 7.

7. Urn of rare and elegant form and ornamentation, $5\frac{1}{4} \times 5$ in., from Darnhall, Peeblesshire—Right Hon. Lord Elibank, 1873.

8. Urn, $4\frac{3}{4} \times 6$ in., ornamented with incised impressions, locality unknown.

9. Urn, $4\frac{3}{4} \times 6\frac{3}{4}$ in., ornamented, from Cawdor, Nairn.

10. Urn, $4\frac{3}{4} \times 5\frac{3}{4}$ in., from Shiel Loch, Torcraik, Borthwick—Rev. Dr Jamieson, 1815.

11, 12. Urns, $5\frac{3}{4} \times 6\frac{3}{8}$ and $5 \times 5\frac{5}{8}$ in., beautifully ornamented, one with four projections below the rim, from Kingsbarns Law, near Crail, Fifeshire—Purchased 1872.

13. Urn, $5\frac{3}{4}$ in. high, imperfect, with double moulding interrupted by four projections, found with others (EA 27–30) at Sheriff-flats—Sir C. W. Anstruther, 1879.

14. Urn, $5 \times 5\frac{1}{2}$ in., found beside a row of cists at Cramond, Mid-Lothian.

15. Urn, $5\frac{1}{4} \times 6\frac{1}{4}$ in., ornamented, with four projecting knobs on the rim, locality unknown.

EE 16. Urn, $4\frac{3}{4} \times 4\frac{1}{2}$ in., with perforated projecting knobs, from Murleywell, Glamis, Forfarshire— S. T. M. Hood, 1863.

17. Urn, $4\frac{1}{2} \times 6$ in., from Mill of Queich, Alyth, Perthshire—Capt. Ogilvie, 1864.

EE 11, 12.

18. Urn, $4\frac{1}{2}$ in. high, with parallel lines of impressed ornament and triangular indentations, found near Lochinch, Galloway—The Earl of Stair, 1879.

19. Urn, $5\frac{1}{2} \times 6\frac{1}{2}$ in., from Birkhill, Stirlingshire—Treasure Trove, 1859.

EE 16, 40.

20. Urn, 6×7 in., ornamented, from Humbie Mills, Haddingtonshire—F. and T. Stewart, 1867.

21. Urn, $6\frac{1}{2} \times 6$ in., from Howyards, Letham, Forfarshire—John Hay, 1863.

22. Urn, $5\frac{1}{4} \times 7$ in., with double band of impressed markings, locality unknown—Sir James Y. Simpson, 1870.

23. Urn, $4 \times 4\frac{1}{2}$ in., with straight sides, from Cairn Curr, Alford, Aberdeenshire—Dr John Stuart, 1866.

24. Urn, 4 in. high, imperfect, found with another (EC 19) at Crailing Hall, Jedburgh—Purchased 1874.

25. Urn, 5×6 in., from Greenford, Guynd, Forfarshire—H. Mitchell, 1852.

26. Urn, $5\frac{1}{4} \times 5\frac{1}{2}$ in., found near Whitehouse, Lamlash, Arran—The Duchess of Hamilton, 1863.

27. Urn, $5\frac{1}{2} \times 5$ in., from Tillybin, Kintore, Aberdeenshire—A. Watt.

EE 28. Urn, $5\frac{1}{2} \times 5$ in., from Wardie, near Newhaven, Mid-Lothian—Capt. Donaldson Boswell, 1832.

29. Urn, $6\frac{3}{4}$ in. high, imperfect, from Dechmount Hill, Cambuslang, Lanarkshire—*Sim Collection.*

30. Urn, $4\frac{5}{8} \times 6$ in., from Rachan, near Biggar, Lanarkshire—*Ibid.*

31. Urn, $5\frac{1}{2} \times 7$ in., from Hill of Migvie, Aberdeenshire—F. Farquharson, 1871.

32. Urn, $5\frac{3}{4} \times 5\frac{1}{2}$ in., from Glenarm, Urr, Kirkcudbrightshire—Alexander Copland, 1782.

33. Urn, $4\frac{3}{4} \times 5\frac{1}{2}$ in., from Carmylie, Forfarshire—Dr Robert Dickson, 1866.

34. Urn, $5 \times 4\frac{1}{2}$ in., from Carr Hills, Monikie, Forfarshire.

35. Urn, imperfect, $4\frac{1}{4} \times 7$ in., with incised ornament, found near Dunbar.

36. Urn, restored, $5 \times 7\frac{1}{4}$ in., with two projecting perforated knobs, and zigzag lines, from Netherdale, Banffshire—Thomas Sevright, 1828.

37. Urn, $7\frac{1}{2}$ in. dia., upper part imperfect, found near Moulin, Perthshire—Dr Arthur Anderson, 1877.

38. Urn, imperfect, $4\frac{3}{4}$ in. high, with impressed ornament, locality unknown.

39. Urn, imperfect, from Ardochy, Invergarry, Glenquoich, Inverness-shire—Edward Ellice, 1859.

40. Urn, $4\frac{1}{2} \times 4\frac{1}{2}$ in., from Ninewells, Invergowrie, Forfarshire—James Yule, 1863.

41. Urn, $4\frac{3}{4} \times 4\frac{3}{4}$ in., from Content, Ayrshire—Deposited by Mrs Memes.

42. Urn, $4\frac{1}{2} \times 6\frac{1}{4}$ in., with bands and incised lines, from Over Dalserf, near Hamilton—William Templeton, 1882.

43. Urn, $4 \times 3\frac{1}{4}$ in., with lozenge ornament at top, from Craigenhollie, Old Luce—Rev. George Wilson, 1880.

44. Urn, $4\frac{1}{2} \times 4\frac{1}{2}$ in., from Kirkhall, Ardrossan, Ayrshire—H. F. Weir, 1863.

45. Urn, imperfect, $5\frac{1}{2}$ in. dia., with incised markings, locality unknown.

46, 47. Urns, viz.—(**46**) 6 in. dia., (**47**) $5\frac{1}{2}$ in. dia., both ornamented and both imperfect, from Alness, Ross-shire—A. Mackenzie, 1881.

48–54. Fragments, viz.—(**48**) fragment of urn, locality unknown; (**49**) fragments of urns, from Glenluce—Rev. George Wilson, 1882; (**50**) fragments of urn, from Tuack, near Kintore; (**51**) fragments of urn, from Milton of Pitmilly, 1867; (**52**) fragments of bottoms of urns from Burnside; (**53**) fragment of urn, from Sutherlandshire—Dr Lawson Tait, 1869; (**54**) fragment of urn, from Belhelvie, 1852.

55. Urn, $5 \times 5\frac{1}{2}$ in., ornamented with small punctures, from Lochlee—Purchased 1884.

56. Urn, $4\frac{3}{4} \times 5\frac{1}{2}$ in., with eight parallel lines below rim and short perpendicular lines round the body, the inside of the rim ornamented by three parallel circular lines, from Gullane Links—Deposited by George Stevens, 1884.

57. Urn, $6\frac{1}{2} \times 7\frac{1}{4}$ in., with impressed parallel lines, found near Loch Awe, Argyllshire—James M. Strachan, 1885.

58. Urn, $6 \times 6\frac{5}{8}$ in., ornamented with impressed zigzag lines, imperfect, from Shiskin, Arran—James Tod, 1887.

59. Urn, $5\frac{3}{8} \times 5\frac{7}{8}$ in., with zigzag lines, imperfect, from Meikle Kenny, Kingoldrum—Rev. J. O. Haldane, 1887.

EE 60. Urn, $5\frac{1}{2} \times 6$ in., with continuous rows of small punctures and six ear-like projections round the upper part, from Zabothy Hill, Inverarity — *Sturrock Collection.*

EE 57.

61. Urn, $4\frac{1}{2}$ by $6\frac{1}{8}$ in., restored, with rows of horizontal and vertical incised lines, found at Wartle, Aberdeenshire—*Sturrock Collection.*

62. Urn, $5\frac{3}{4} \times 5\frac{3}{4}$ in., with six groups of short incised lines, from Zabothy Hill, Inverarity—*Sturrock Collection.*

63, 64. Urns, from Hatton Cairn, Inverarity, viz.—(**63**) $5\frac{3}{8} \times 6\frac{1}{2}$ in., with groups of incised lines, &c.; (**64**) $4\frac{1}{4} \times 4\frac{1}{2}$ in., with rows of depressions, round outside of lip, &c.—*Sturrock Collection.*

65. Urn, $3\frac{3}{4} \times 4\frac{1}{2}$ in., ornamented with rows of zigzag lines, from Wallace Town, Ayrshire—Miss Brown, 1892.

66–69. Urns, from a cemetery at Pitreavie, Dunfermline, viz.—(**66**) $5\frac{3}{4} \times 6\frac{3}{4}$ in., ornamented with impressed markings; (**67**) $5\frac{1}{4} \times 5\frac{3}{4}$ in., ornamented

EE 70.

with irregular lines of impressed markings; (**68**) $4\frac{3}{4} \times 5\frac{1}{2}$ in., ornamented with scratched, uneven lines; (**69**) $4\frac{1}{2} \times 6\frac{1}{4}$ in., with perpendicular and horizontal impressed lines—Deposited by Henry Beveridge, 1886.

70, 71. Urns, from cemetery at Calais Muir, Dunfermline, viz.—(**70**) 5×6 in., with five projecting knobs and horizontal impressed lines; (**71**) $4\frac{1}{2} \times 4\frac{1}{2}$ in., with intercrossing zigzags on upper part—Deposited by Henry Beveridge, 1886.

URNS OF FOOD-VESSEL TYPE.

[From Ireland.]

In Wall Case, North Side of Second Floor.

EF 1-23. Urns, viz.—(**1**) $3\frac{1}{2}$ in. high, 6 in. dia.; (**2**) $3\frac{3}{4} \times 5\frac{1}{2}$ in.; (**3**) restored, $3\frac{3}{4} \times 5\frac{1}{2}$ in.; (**4**) restored, $4\frac{1}{2} \times 5\frac{3}{4}$ in.; (**5**) $4\frac{1}{2} \times 6$ in.; (**6**) restored, $4\frac{1}{2} \times 5\frac{3}{4}$ in.; (**7**) $3\frac{3}{4} \times 5\frac{1}{4}$ in.; (**8**) $3\frac{1}{2} \times 5$ in.; (**9**) imperfect, $4 \times 6\frac{1}{4}$ in.; (**10**) $4\frac{1}{2} \times 6\frac{1}{4}$ in.; (**11**) $3\frac{3}{4} \times 6\frac{1}{4}$ in.; (**12**) $4\frac{1}{2} \times 6\frac{1}{4}$ in.; (**13**) restored, $5\frac{1}{2} \times 6\frac{1}{4}$ in.; (**14**) $4\frac{1}{2} \times 6\frac{1}{2}$ in.; (**15**) restored, $3\frac{1}{2} \times 6\frac{1}{4}$ in.; (**16**) imperfect, 4×6 in.; (**17**) imperfect, $6\frac{1}{2}$ in. dia.; (**18**) restored, $4\frac{1}{2} \times 5\frac{3}{4}$ in.; (**19**) fragment—*Bell Collection;* (**20**) $4\frac{3}{4} \times 7$ in., found near Kilcattan, Londonderry, 1837; (**21-23**) fragments, chiefly of food-vessel type—*Bell Collection.*

URNS OF DRINKING-CUP TYPE.

In Floor Cases, North Side of First Floor.

[These tall, narrow, thin-lipped vessels, with bulging sides and slightly everted lip, have been called drinking-cups, in the same way as the wide-mouthed

EG 2.

and thick-lipped vessels of the previous class were named food-vessels. They are chiefly associated with unburnt burials, and, like the other classes of sepulchral pottery, were made for sepulchral purposes only, though it is impossible to say with certainty whether their purpose was to contain food or drink.]

EG 1. Urn, $6 \times 4\frac{3}{4}$ in., from Achroisk, Banffshire—L. W. Fraser, 1870.

2. Urn, $6\frac{1}{4} \times 5$ in., ornamented with incised lines, from Parkhill, near Aberdeen—William Ferguson, 1882.

3. Urn, $6\frac{1}{2} \times 5\frac{1}{2}$ in., found with skull (ET 33) at Juniper Green—Purchased 1851.

4. Urn, 7×6 in., found near St Peter's Church, Buckie, Banffshire—Purchased 1882.

EG 4.

5. Urn, from Priesttown, Edzell, Forfarshire—David Robertson, 1864.

6. Urn, 5 in. high, found near Kincardine Castle, Strathearn—A. G. Reid, 1878.

7. Urn, $5\frac{3}{4} \times 5\frac{1}{2}$ in., from Tillyochie, Kinross-shire—Robert Marshall, 1808.

8, 9. Viz.—(8) urn, $6\frac{1}{2} \times 4\frac{1}{2}$ in., (9) fragments of another, from Windy Mains, Haddingtonshire—R. Forman, 1857.

10. Urn, $6\frac{1}{4} \times 6$ in., ornamented with incised lines, locality unknown.

11. Urn, $9 \times 6\frac{3}{4}$ in., ornamented with lines and dots, from the Court Hill, Dalry, Ayrshire—R. W. Cochran-Patrick, 1873.

12, 13. Urns, $6\frac{3}{4} \times 5\frac{1}{2}$ and $7\frac{1}{2} \times 6\frac{1}{2}$ in., from Cakemuir Hill, Mid-Lothian—John Borthwick, 1857.

EG 14. Urn, $8\frac{1}{4} \times 5\frac{3}{4}$ in., ornamented with incised lines, from Drem, Haddington—James Reid, 1882.

15. Urn, cup-shaped, imperfect, 5×4 in., from Resting Hill, Dunottar—Treasure Trove, 1865.

16. Urn, $7\frac{1}{4} \times 5\frac{3}{4}$ in., from Inveramsay, Chapel of Gairloch, Aberdeenshire—Patrick Irvine, 1861.

17. Urn, 8 in. high, in cist with flint implements and rubbing-stone, near Kings Wells, Fallows, Monikie, Forfarshire—Hugh Campbell, 1873.

EG 11.

EG 38.

18, 19. Urns, $7\frac{1}{2} \times 5$ and $6\frac{3}{4} \times 5$ in., from Lanarkmoor, Lanarkshire—Treasure Trove, 1864.

20. Urn, $6\frac{1}{2} \times 5\frac{1}{2}$ in., from Cruden, Aberdeenshire—James Shepherd, 1876.

21. Urn, $6\frac{1}{2} \times 4\frac{3}{4}$ in., from Aberdeenshire—Mrs Morrison, 1864.

22. Urn, $5\frac{1}{4} \times 5$ in., probably from Ross-shire—Purchased, Brahan Castle Sale, 1876.

23. Urn, imperfect, $6\frac{3}{4}$ in. high, from near Littleton Castle, Kelso.

24. Urn, 7×5 in., with straight and zigzag lines, from Grangehill Farm, Kinghorn—Thomas Dick, 1869.

25. Urn, imperfect, $7\frac{1}{2}$ in. high, from Hill of Mossplatt, Carluke, Lanarkshire—J. H. Sanderson, 1862.

26. Urn, $6\frac{3}{4} \times 6$ in., from near Elgin—Professor Cosmo Innes, 1861.

27. Fragments of Urn, found near Duns Railway Station—W. Stevenson, 1863.

28, 29. Fragments of two Urns, from Kinaldy, Dyce, Aberdeenshire—Alexander Watt.

30. Urn, $9 \times 6\frac{1}{2}$ in., imperfect, with bands of incised lines, from Wester Wooden, Eckford, Roxburghshire—The Duke of Buccleuch, 1886.

EG 31. Portions of Urn, 10¼ in. high, from Upper Mains of Muiresk, Turriff, Aberdeenshire—R. Cruikshank, 1886.

32. Urn, 5½ × 4⅜ in., ornamented with small punctulations, from Tartraven, Linlithgowshire—R. Carfrae, 1887.

33. Fragments of Urn, ornamented with lines and dots, from Unst, Shetland—Purchased 1886.

34. Urn, 5⅜ × 4¼ in., with six bands of herring-bone pattern, imperfect at one side, from Gryndan, Norham, Northumberland—Purchased 1889.

35. Urn, 8 × 5¾ in., with bands of incised crossed lines, &c., from King Street Road, Aberdeen—Purchased 1890.

36, 37. Urns, viz.—(**36**) 5⅛ × 4⅛ in., ornamented with groups of impressed lines in triangles; (**37**) 4½ × 4½ in., ornamented with impressed triangles of dotted lines, from Ellon, Aberdeenshire—Purchased 1892.

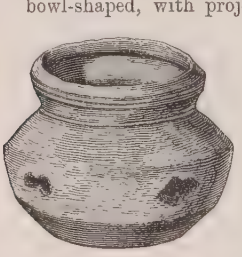
38. Urn, 8¼ × 5⅛ in., ornamented with triangles of incised lines, imperfect, from Eckford—J. G. Winning, 1891.

CLAY VESSELS OF PECULIAR TYPES.

(Associated with Burials.)

In Pillar Case, Middle of South Side, First Floor.

EH 1–7. (**1, 2**) From Aberdeenshire, viz.—(**1**) of dark-coloured clay, 5½ × 5 in., bowl-shaped, with projecting knobs and rude chevrony ornamentation, said to be from Buchan; (**2**) of reddish clay, 4½ × 4 in., wider at the mouth than at the bottom, ribbed horizontally, with pierced ears, and ledge for lid, glazed internally, found with part of iron sword in tumulus at Memsie—John Gordon, 1827; (**3**) of coarse earthenware, 5 in. high, of peculiar shape, ribbed horizontally, pierced with three holes, found near the Castlehill, Rattray, Aberdeenshire—James Cumine, 1869; (**4**) of red earthenware (wheel-made), 4 × 4½ in., pierced with three holes, found with three others in a stone coffin below the foundation of the old steeple of Montrose—William Smith, 1834; (**5**) of coarse, black clay, 4 × 3½ in., locality unknown; (**6**) of coarse, bluish clay, 4½ × 5 in., locality unknown; (**7**) of dark-coloured clay, 5 × 5½ in., found with skeleton in the Knowe of Saverough, Birsay, Orkney—James Farrar, 1863.



EH 4.

CLAY VESSELS OF PECULIAR TYPES.

[From other Countries.]

In Wall Case, South Side of Second Floor.

EI 1–11. (**1–8**) Urns, and a stand of reddish ware, found under cairns at Combatore, near the Neilgherries, India—Dr A. Hunter, 1859; (**9–11**) casts of three urns, viz.—(**9**) from Bolten, Vermont, U.S.; (**10**) from Colchester, Vermont; (**11**) from Indian grave at Deerfield, Mass., U.S.—Dr Arthur Mitchell, 1882.

URNS OF STONE.

In Wing at East End of First Floor.

[These urns of steatite and sandstone, which are often of great size, have only been found in the extreme north of Scotland. They always contain burnt bones, and are therefore cinerary in character. Similar urns of steatite of the later Iron-Age, or early Viking period, are common in Norway.]

EK **1.** Urn of Steatite, 21 × 21½ in., containing burnt bones, from a tumulus at Stennis, Orkney—James Farrar.

2, 3. Urns of Steatite, viz.—(**2**) 18 × 19½ in., (**3**) 22 × 15 in., both containing calcined bones, found with others at Orem's Fancy, Stronsay—George Petrie, 1869.

4. Urn of Steatite, 23 × 17 in., imperfect, from Wilkies Knowe, Westray, Orkney—Professor T. S. Traill, 1834.

5. Urn of Steatite, 7 × 11½ in., containing burnt bones, from Rousay, Orkney—Colonel Balfour, 1860.

6. Urn of Steatite, 11 × 9 in., containing calcined bones, from Orkney—George Petrie.

7. Urn of Steatite, 8½ in. high, from Corquoy, Rousay, Orkney—George M'Crie, 1880.

8. Urn of Steatite, 6½ × 4 in., from Shapinsay—Col. Balfour, 1882.

EK 7.

EK 8.

9. Urn of Steatite, oval-shaped, 5 × 4 in., with bevelled, everted lip, found with urn (EA 15) in Fair Isle—John Bruce, 1876.

10–13. Fragments of four Urns of Steatite, from Orkney.

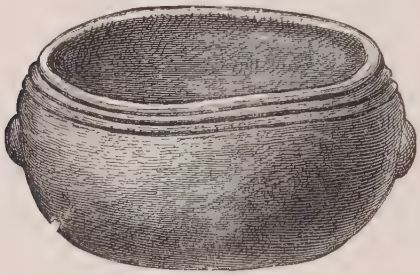
14, 15. Circular Vessels of Sandstone, 15 × 9½ and 8½ × 6 in., with ornamental rims, from Aucorn, Caithness—A. H. Rhind.

16. Circular Vessel of Steatite, 6 in. dia. at mouth, 5 in. high—*Lerwick Collection.*

17–26. Fragments of Urns of Steatite—*Ibid.*

27–29. Urns of Steatite, from Uyea, Unst, Shetland, viz.—(**27**) 12¼ × 10½ × 8½ in. high, containing burnt bones; (**28**) 8 × 5½ × 4¾ in., imperfect; (**29**) 6¾ × 6½ × 4 in. high, rudely made—Purchased 1885.

EK 30. Urn of steatite, imperfect, $10 \times 10\frac{3}{4}$ in., from Shapinsay, Orkney—Col. Balfour, 1886.



EK 14.

EK 15.

31. Fragment of steatite urn, outside burnt, from Orkney—Purchased 1888.

URNS OF STONE.

[From other Countries.]

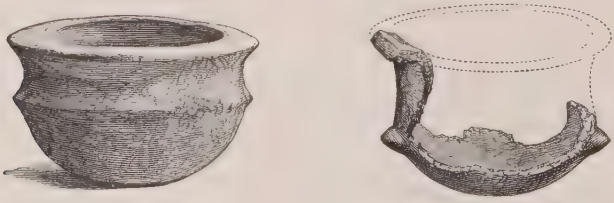
In Wall Cases, both Sides of Second Floor.

EL 1–9. Viz.—(**1**) large, circular, round-bottomed vessel of steatite, 20 in. dia., from Odde, on the Hardanger Fiord, Norway—A. Sholto Douglas, 1882; (**2, 3**) urn and cover, from Hagar-Kim, Malta—A. H. Rhind; (**4**) fragment of urn of steatite, from Connecticut Valley, United States—Dr A. Mitchell, 1882; (**5–8**) casts of four vessels of steatite, viz.—(**5**) from South Hadley, Massachusetts; (**6**) from Brookfield, Mass.; (**7**) from the Connecticut Valley; (**8**) from Holyoke, Mass.—*ibid.*; (**9**) urn of red sandstone, $4\frac{1}{2} \times 4\frac{1}{4}$ in., ribbed horizontally, found in cairn near Cookstown, Co. Tyrone, Ireland—*Bell Collection.*

COLLECTIONS FROM CHAMBERED CAIRNS.

In Table Case opposite Entrance Door, First Floor.

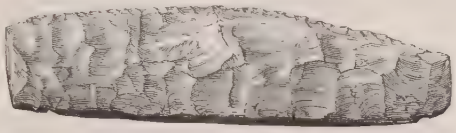
EO 1–16. From Achnacree, Argyllshire, viz.—(**1**) urn, wide-mouthed, thick-lipped, and round-bottomed, $3 \times 5\frac{3}{8}$ in. dia.; (**2**) portion of another;



EO 1, 2.

(**3–10**) fragments of the rims of several, and portion of the bottom of another; (**11–16**) pebbles of quartz, found on ledge on side of cairn—Dr R. Angus Smith, 1874.

EO 17–96. From Kenny's Cairn, Caithness, viz.—(**17–33**) fragments of rudely made coarse urns ; (**34**) hammer-stone of sandstone, worn at both ends by use ; (**35–44**) scrapers, knives, and worked flakes of flint ; (**45–86**)



EO 97.

flakes and chips unworked ; (**87**) bone implement, $3\frac{1}{8} \times 1\frac{9}{16}$ in., ground to an edge on each side at one end ; (**88–96**) tusks, teeth, and bones of animals—Dr Joseph Anderson, 1871.

97–123. From the circular cairn at Camster, Caithness, viz.—(**97**) knife of flint, $2\frac{5}{16} \times \frac{10}{16}$ in., ground on one edge ; (**98–106**) worked implements of flint ; (**107–122**) chips and fragments of flint, unworked, found imbedded in floor of the chamber; (**123**) portion of iron knife with tang, found on the floor—Dr Joseph Anderson, 1873.

124–131. From the horned cairn at Ormiegill, Ulbster, Caithness, viz.—(**124–126**) lop-sided arrow-head, triangular-shaped arrow-head, and small leaf-shaped arrow-head, all of flint ; (**127**) end portion of ground-edged knife of flint; (**128**) oval and pointed knife of flint formed from a flake trimmed to an edge all round ; (**129**) neatly-formed round scraper of flint ; (**130**) chip of flint, unworked ; (**131**) hammer of grey granite, $4 \times 2\frac{1}{2}$ in., polished and perforated—Dr Joseph Anderson, 1873.

132. Ten small Beads of Jet or Lignite, from horned cairn at Yarhouse, Thrumster, Caithness—Dr Joseph Anderson, 1871.

EO 131.

133–135. From round cairn at Quoyness, Elsness, Sanday, Orkney, viz.—(**133**) implement of dark bituminous schist, $4\frac{3}{4} \times 2\frac{1}{2}$ in., with longitudinal

EO 137.

groove and double-pointed ends ; (**134**) implement of dark-coloured schist, three-pointed, with two grooves passing round central ridge opposite to

EO the longest of its three projections ; (**135**) implement of bone, 7 in. long, round and tapering, with polished surface and small projecting knob on one side—James Farrar, M.P., 1868.

136–179. From Unstan, Orkney, viz.—(**136**) urn, 15½ in. dia., imperfect

EO 139.

EO 141.

EO 173, 176, 177.

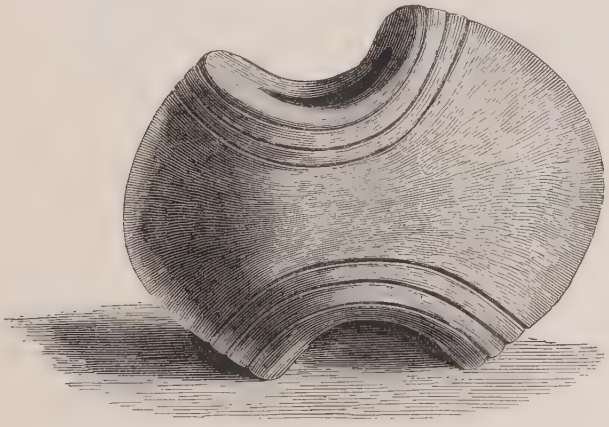
on one side, ornamented with hatched lines round rim ; (**137**) urn, 14 in. dia., imperfect, ornamented with groups of incised lines ; (**138**)

EO urn, 13½ in. dia., imperfect, ornamented with triangles filled with incised lines; (**139**) urn, 11¾ in. dia., imperfect, with triangles of incised lines; (**140**) urn, 9¼ in. dia., imperfect, with band of incised lines round rim; (**141**) urn, 9 in. dia., plain; (**142**) rim of urn, 10½ in. dia., ornamented with triangles of incised lines; (**143–157**) portions of rims of similar urns, ornamented with groups and triangles of incised lines; (**158–169**) portions of vessels of different forms; (**170**) large number of fragments of urns and vessels; (**171–174**) three lozenge-shaped arrow-heads and portion of another; (**175**) arrow-head with barbs and stem, imperfect; (**176**) scraper of oblong form; (**177**) flint knife; (**178**) flint flake; (**179**) flaking tool or fabricator—Purchased 1885.

COLLECTIONS FROM STONE CIRCLES.

In Floor Case, North Side of First Floor.

EP 1-4. From Crichie, Kintore, Aberdeenshire, viz.—(**1**) urn of cinerary form, 9½ in. high, imperfect; (**2**) axe-hammer of sandstone, perforated, 4½ × 3½



EP 2.

in., constricted in the middle, with three incised concentric lines round haft hole; (**3, 4**) portions of urns and burnt human bones—The Earl of Kintore, and C. E. Dalrymple, 1856.

5, 6. From Tuack, near Kintore, viz.—(**5**) urn, 12 × 10 in., with burnt bones; (**6**) portions of urn and burnt bones—The Earl of Kintore, 1856.

7-21. From stone circles at Mauchrie Moor, Tormore, Arran, viz.—(**7**) urn, 7½ × 7 in., and (**8–11**) flint flakes, from circle No. 2; (**12–16**) urn, 5 × 7 in., flint flakes, and portion of bronze, from No. 4; (**17–20**) flint flakes; (**21**) portions of teeth, unburnt bones, &c.—The Duke of Hamilton, 1863.

EP 22. Portions of Urns and Burnt Human Bones, from Foulerton, Kintore—Charles E. Dalrymple, 1856.

EP 5.

23, 24. Burnt Human Bones, and (**24**) portion of Bronze, from Rayne, Aberdeenshire—Charles E. Dalrymple, 1856.

COLLECTIONS FROM SEPULCHRAL DEPOSITS.

(Consisting of articles found together in Cists, Graves, or Cemeteries, chiefly of the Early Bronze Age.)

In Floor Case on First Floor, West End of North Side.

1–4. From Murthly, Perthshire, viz.—(**1, 2**) fragments of urn; (**3**) small lozenge-shaped piece of worked bone, perforated; (**4**) burnt bones—Dr Arthur Mitchell, 1870.

5–14. From Ballymichael, Arran, viz.—(**5**) urn of cinerary type, 12 × 11 in.; (**6–14**) scrapers and worked implements of flint which appear to have been burnt—The Duchess of Hamilton, 1863.

15–17. From Closeburn, Dumfriesshire, viz.—(**15**) fragments of urn; (**16, 17**) flakes of flint—C. G. Stuart Menteath, 1821.

18, 19. From Lunanhead, Forfarshire, viz.—(**18**) urn, 6 × 5 in., ornamented with zigzag pattern, &c.; (**19**) flake of flint—Purchased 1877.

20–22. From Garrywhin, Whaligo, Caithness, viz.—(**20**) fragment of urn; (**21, 22**) flakes of flint—Dr Joseph Anderson, 1873.

EQ 23-29. From Broomend, Inverury, Aberdeenshire, viz.—(**23**, **24**) urns, 7 × 5½ in. and 6⅛ × 5½ in.; (**25**, **26**) flakes of flint; (**27**) ring of bone; (**28**, **29**) portions of clay lining of cist—James Hay Chalmers, 1867.

EQ 23.

EQ 50.

30-34. From Lesmurdie, Banffshire, viz.—(**30**) urn, 7¾ × 5¾ in.; (**31**) urn, 7½ × 6 in.; (**32**) urn, 5¾ × 4½ in.; (**33**, **34**) flakes of flint—found with the skull ET 14—Captain Stuart, 1853.

35-37. From Broomend, Inverury, Aberdeenshire, viz.—(**35**) portion of matted substance of rootlets of plants and hair; (**36**) fragment of ox-hide which covered two skeletons, found with two urns, in one of which was the spoon (**37**) of ox-horn—James Hay Chalmers, 1867.

38. Lump of hardened Clay, with impressions of fingers, from cist in barrow at Wideford, St Ola, Orkney—George Petrie.

39. Portion of Matted Fibrous Substance, which enveloped the long bones of skeleton, from Barnhill, near Broughty Ferry, Forfarshire—1875.

40-43. From South Uist, viz.—(**40**) comb of bone, with semicircular back, 7 in. long; (**41**) flat, circular bronze brooch, 1¼ in. dia., ornamented with incised lines; (**42**) small bronze brooch or buckle, ½ in. dia.; (**43**) flint arrow-head with barbs and stem, apparently burnt, one barb imperfect—John Macdonald, 1872.

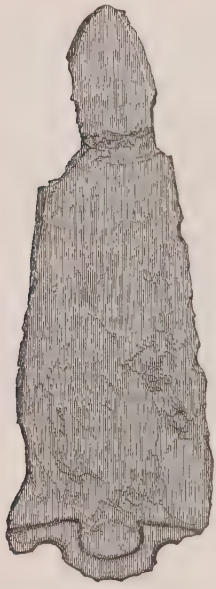
44, 45. From Eddertoun, Ross-shire, viz.—(**44**) bead of blue glass with yellow enamel spirals; (**45**) knife-blade of bronze, imperfect, 2 in. long—Rev. J. M. Joass, 1864.

46, 47. From North Ronaldsay, Orkney, viz.—(**46**) burnt bones, teeth, &c.; (**47**) portion of burnt wood—Dr William Traill, 1874.

48, 49. Burnt Human and Animal Bones and Iron Implement (modern), from sandy hillock at Glenelg, Inverness-shire—Dr Arthur Mitchell, 1867.

50-58. From Collessie, Fife, viz.—(**50**) urn of drinking-cup type, 9 in. high; (**51**) fragments of unburnt bones found with the urn; (**52**) bronze dagger

EQ found among burnt bones in the gravel under the base of cairn; (**53**) gold mounting of dagger-hilt; (**54**) portions of dagger-sheath; (**55**) hairs of hide that covered the sheath; (**56, 57**) portions of layer of burnt bones in which the dagger was found; (**58**) urn of drinking-cup type, $7\frac{1}{4} \times 6$ in., found in gravel under base of cairn—William Wallace, 1878.



EQ 52, 53.

59, 60. From Cleughhead, Glenbervie, Kincardineshire, viz.—(**59**) oval-shaped hammer of granite, $3\frac{3}{4} \times 2\frac{1}{2}$ in., perforated; (**60**) burnt bones—Alexander Thomson, 1878.

61, 62. Skulls, probably of dogs, viz.—(**61**) from large grave in Papa Westray; (**62**) from Burray, Orkney — George Petrie, 1855.

63. Axe of Bone, found lying on covering-stone of cist in parish of St Andrews, Orkney—George Petrie, 1865.

64. Hammer of Greenstone, $4\frac{1}{2}$ in. long, perforated, from Pentland, Midlothian—Prof. Daniel Wilson, 1863.

65. Axe-hammer of Granite, $4\frac{1}{2} \times 2\frac{1}{2}$ in., perforated, ornamented on each side by band of three incised lines, found in cinerary urn with calcined bones at Chapelton, Ardrossan—Deposited by D. Cunningham, 1872.

66, 67. From Glenhead, Doune, Perthshire, viz.—(**66**) urn of food-vessel type, $4\frac{1}{2} \times 4$ in., ornamented over the whole outer surface; (**67**) hammer of veined quartzite with convex ends, $2\frac{1}{2}$ in. long, finely polished, haft-hole small—Mrs Henderson, 1873.

68–70. From Meiklerigg, Stenton, Haddingtonshire, viz.—(**68**) urn of cinerary type, $14\frac{1}{2} \times 12\frac{1}{2}$ in.; (**69**) flint knife, $2\frac{11}{16}$ in. long, finely worked over upper face, curved longitudinally, pointed at one end; (**70**) whetstone of micaceous schist, $3\frac{1}{16}$ in. long, one end partly perforated—Lady Mary Nisbet Hamilton, 1880.

71, 72. From Shuttlefield, Lockerbie, viz.—(**71**) upper portion of urn, 10 in. dia.; (**72**) leaf-shaped bronze blade, with midrib on each face, $2\frac{13}{16}$ in. long, tanged end, slightly imperfect—William Rae, 1880.

73, 74. Portions of Matted Substance, viz.—(**73**) from Parkhill, Aberdeenshire—Prof. Struthers, 1867; (**74**) from Roseisle, Elgin.

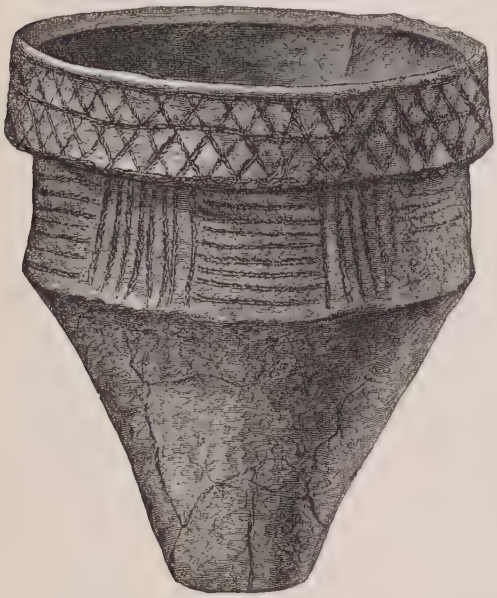
75. Portion of circular Disc of Bone, 1 in. dia., perforated through centre, found with urns (EA 27–30, EC 20, EE 13) at Sheriff-flats, Lanarkshire—Sir Windham Carmichael Anstruther, Bart., 1879.

76–79. From Balgay, near Dundee, Forfarshire, viz.—(**76**) necklace of 43 beads and 8 plates of jet with punctulated ornamentation; (**77–79**) fragments of urns—John Berry, 1870.

80, 81. From Boghead, Kintore, Aberdeenshire, viz.—(**80**) portion of

EQ necklace of 8 beads and 4 plates of jet; (**81**) ring of white vitreous paste, $2\frac{7}{8}$ in. dia., with yellow stripe on the inner side—John Lumsden, 1789.

82, 83. From Bogheadly, Fetteresso, Kincardineshire, viz.—(**82**) necklace



EQ 68.

EQ 69.

of 36 beads and 7 plates of jet; (**83**) portion of lip of cinerary urn rudely ornamented with incised lines—Treasure Trove, 1865.

84. Necklace of 22 Beads and 7 Plates of Jet, with punctulated ornamentation, found with urn at Assynt, Sutherlandshire—Alexander Fraser, 1824.

85, 86. From Rothie, Fyvie, Aberdeenshire, viz.—(**85**) necklace of 14 beads and 9 plates of jet; (**86**) portion of urn, fragment of bronze, and 2 amber beads—Col. J. Forbes-Leslie, 1865.

87. Necklace of 79 Beads and 6 Plates of Jet, from Lunanhead, Forfarshire—Purchased 1877.

88. Ring of Jet, 4 in. dia., from Cumbernauld, Dumbartonshire—Prof. Daniel Wilson, 1863.

89, 90. Two Buttons of Jet, 1 and 2 in. dia., from Letham, Forfarshire—Sir David Brewster, 1860.

91. Elongated, doubly-tapering Bead of Jet, from Forfarshire—Prof. Daniel Wilson, 1863.

92, 93. From cists near Yarrow Kirk, Selkirkshire, viz.—(**92**) ring of jet, 2 in. dia.; (**93**) fragment of urn—Andrew Currie, 1857.

94. Nine Small Beads of Jet, found with others at Farrochie, Kincardineshire—W. Duncan, 1837, and George R. Kinloch, 1863.

EQ 95, 96. From Blackerne, Crossmichael, Kirkcudbrightshire, viz.—(**95**) flat ring of silver, ribbed on outer side; (**96**) bead of amber—Alexander Copland, 1782.

EQ 72.

97. Portions of circular Cup-shaped Vessel of Glass, found in a cist in Westray, Orkney—Rev. Dr Brunton, 1827.

98. Polisher of Serpentine, found in urn at Bucklands, Hopeman, Elginshire—Purchased 1888.

99. Ring of Jet, $2\frac{1}{8}$ in. dia., locality unknown.

100–102. Urn of Food-Vessel Type, 7×7 in., with irregular impressed lines, necklace of 6 plates and 100 beads of jet, small fragment of bronze blade, and portion of trepanned human skull, from Mountstuart, Isle of Bute—The Marquis of Bute, 1888.

103–107. From a small cemetery near the Earth House at Cairnconan, Forfarshire, viz.—(**103**) ring of jet, $1\frac{1}{2}$ in. dia.; (**104–107**) small pebbles of quartzite—Andrew Jervise, 1862.

108–116. Three Beads of Amber and 6 of Jet, in the form of perforated stone hammer-heads, from a tumulus in Lanarkshire—*Sim Collection.*

117. Gold Ornament or Earring, one of pair found in a cist at Orton on the Spey—Alexander Walker, 1869.

118, 119. Penannular Rings of Gold with slightly expanded ends, found with unburnt interment at Alloa—Treasure Trove, 1828.

120–125. From Banffshire, viz.—(**120–124**) two large and three small pen-

EQ 133.

annular rings of gold found in urn (**125**), which is $6 \times 5\frac{3}{4}$ in.—Earl of Fife, 1832.

126–130. From Huntiscarth, Orkney, viz.—(**126–129**) thin, circular discs of gold, each with concentric lines in relief, and (**130**) amber beads and fragments—James Farrar, 1858.

EQ 131–133. From Fyrish, Evantoun, Ross-shire, viz.—(**131**) urn of drinking-cup type, 6 × 6 in., ornamented with bands of parallel lines and zigzags; (**132**) human skull; (**133**) bracer of hard greenish stone, 4½ × 1¼ in., cross-section curved, polished, perforated at each corner—William Walker, 1865.

134–137. From Callachally, Glenforsa, Mull, viz.—(**134**) bracer of polished

EQ 137.

EQ 138.

hard greenstone, 3¼ × 1¼ in., with perforation through each end; (**135**) fragments of urn; (**136**) fragments of thin bronze blade; (**137**) urn of drinking-cup type, 6½ × 6 in., with rows of triangles filled with incised lines—Colonel Greenhill Gardyne, 1872.

138, 139. From Crawfurd, Lanarkshire, viz.—(**138**) urn of drinking-cup type, 6 × 5¼ in., ornamented with incised lines; (**139**) ring of bronze, 3 in. dia., found in urn — *Sim Collection.*

140–146. From Slap, Turriff, Aberdeenshire, viz. — (**140**) urn of drinking-cup type, 6 × 5½ in., unornamented; (**141–146**) flint flakes — William John Ledingham, 1875.

DQ 147.

147–149. From Kinneff, Kincardineshire, viz.—(**147**) urn of food-vessel type, finely ornamented; (**148, 149**) rings of bronze, 3 in. dia.—Rev. Alan Stewart, 1834.

EQ 150. Vessel of Glass, $2\frac{1}{4} \times 3$ in. dia., found in a cist at Airlie, Forfarshire—School Board of Airlie, 1886.

151–156. From Cambusbarron, Stirlingshire, viz.—(**151**) urn of cinerary type, 15×13 in.; (**152**) urn of cinerary type, $12\frac{1}{2} \times 11\frac{1}{2}$ in.; (**153**) urn, $7 \times 6\frac{1}{2}$ in.;

EQ 149.

(**154**) fragments of urn; (**155**) oval-shaped hammer of gneiss, $4\frac{13}{16} \times 3$ in., perforated through the centre of the flatter face, found with the urns; (**156**) fragment of bronze—Treasure Trove, 1864.

EQ 150.

157–162. From Ratho, Midlothian, viz.—(**157**) urn of food-vessel type, $4\frac{3}{4} \times 5\frac{3}{4}$ in., ornamented; (**158–162**) fragments of bronze rings, &c.

163, 164. From Stobshiel, Haddingtonshire, viz.—(**163**) urn of cinerary type, $14\frac{1}{2} \times 12$ in., ornamented round the upper part by chevrony pattern; (**164**) portion of bronze blade—John Hislop, 1881.

165, 166. From Westeryird Houses, Carnwath Moor, Lanarkshire, viz.—(**165**) portion of urn of drinking-cup type, found in cist, the covering-stone of which (**166**) bears on one side triangles, concentric circles, &c.—James Bryce through James Gilchrist, 1873. (*The covering-stone is on floor of wing of ground floor.*)

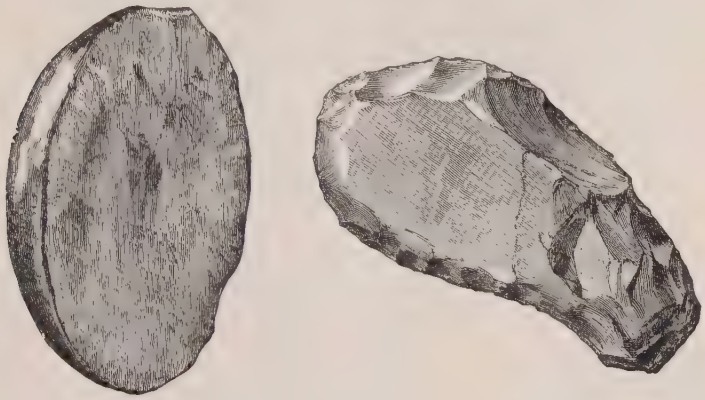
167. Implement of Bone from cist, Papa Westray, Orkney—George Petrie.

168–184. Fragments of Deerhorn (*Cervus elaphus*), Bones of Pig, Dog, &c., and portions of Human Skull, from cairn in Papa Westray, Orkney—George Petrie.

185–188. From grave at East Langton, Midlothian, viz.—(**185**) iron dagger

EQ with wooden handle, 13¼ in. long; (**186**) iron knife-blade, 9¼ in. long; (**187**) perforated bone pin, 3¼ in. long; (**188**) portion of glazed earthenware—Dr Daniel Wilson, 1852.

189–191. From Flowerburn, Ross-shire, viz.—(**189**) fragments of large cinerary urn, one piece ornamented by raised ridge round the circumference; (**190**) nodule of iron pyrites found beside the (**191**) strike-a-light of calcined flint—Major Colin Mackenzie, 1884.



EQ 190, 191.

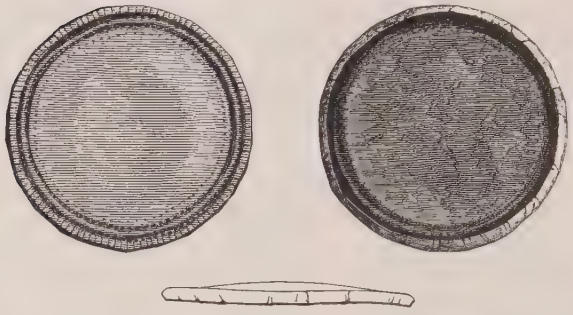
192. Portion of covering of pieces of Birch Bark sewn together, found in wooden coffin at Oban—Dr Robert Munro, 1885.

EQ 193.

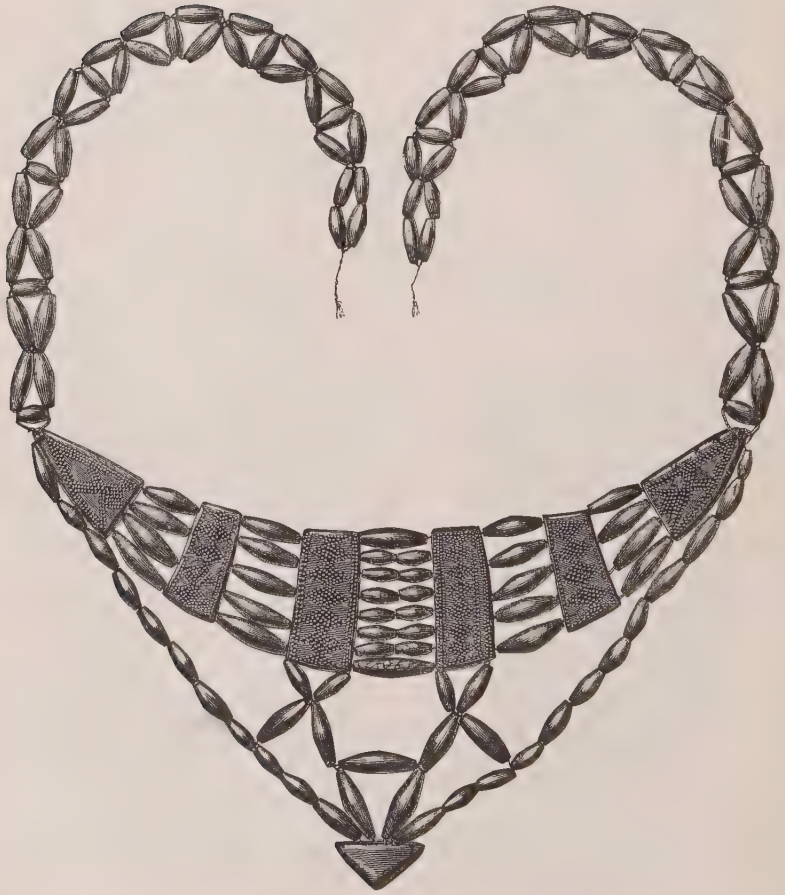
EQ 194–197.

193–197. From a cist at Dairsie, Fifeshire, viz.—(**193**) urn of drinking-cup type, 7⅝ × 5½ in.; (**194–197**) four small arrow-heads of flint, with barbs and stems—Mrs Erskine, 1886.

EQ.



EQ 199, 200.



EQ 219.

EQ 198–200. Knife-dagger Blade of Bronze, $3\frac{3}{8}$ in. long, and two ornamented discs of thin beaten gold, each $1\frac{3}{8}$ in. dia., from a cist at Barnhill, Broughty Ferry, Forfarshire—The Earl of Dalhousie, 1887.

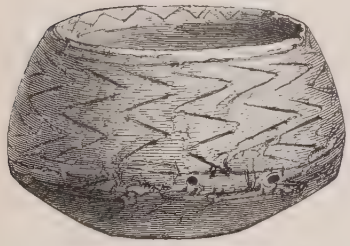
201, 202. Fragments of Bronze Dagger, and Whetstone, $3\frac{1}{2} \times \frac{7}{8}$ in., perforated at one end, from Mid Torrs, Glenluce, Wigtownshire—Purchased 1888.

203–205. Viz.—(**203**) small single-edged knife of flint, $1\frac{1}{2}$ in. long; (**204**) portion of lip of urn with peculiar ornamentation; (**205**) small ball of granitic stone, found with (AK 148, 149) at Sand Minnicks, Mid Torrs, Glenluce, Wigtownshire—Rev. George Wilson, 1888.

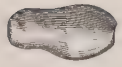
207–209. Viz.—(**207**) urn of food-vessel type, $6\frac{1}{4} \times 6\frac{1}{8}$ in., rudely ornamented by incised lines; (**208**) cylindrical bead and (**209**) small plate of jet, found at Kellas, Murroes, Forfarshire—*Sturrock Collection.*

210–213. Viz.—(**210**) square-shaped button ornamented round margin on upper side with incised lines, found at Law Hill, Dundee; (**211, 212**) one large and one small bead of jet, found at Gartley, Aberdeenshire; (**213**) large bead of jet, found at Melgund, Forfarshire—*Sturrock Collection.*

214–217. From Mill of Marcus, Forfarshire, viz.—(**214, 215**) small cinerary urn, $6\frac{1}{4} \times 4\frac{3}{4}$ in., ornamented with pattern of two impressed zigzag lines



EQ 223.



EQ 229.

EQ 226.

crossing each other, and small triglobular bead of greenish paste; (**216**) portions of rim and part of side of large cinerary urn; (**217**) portion of one side of small urn, apparently of drinking-cup type, $4\frac{1}{8}$ in. high—Purchased 1890.

218–221. From Balcalk, Tealing, Forfarshire, viz.—(**218**) urn, $5\frac{1}{2} \times 6\frac{1}{4}$ in., ornamented with impressed zigzag lines, &c.; (**219**) necklace of jet beads and plates; (**220**) small triangular flint knife; (**221**) small bronze pin—Earl of Home, 1891.

EQ 222–236. From Gilchorn, near Arbroath, Forfarshire, viz.— (**222**) cinerary urn, $16\frac{1}{4} \times 12\frac{5}{8}$ in., ornamented with oblique lines of punctures, imperfect; (**223**) cup urn, $2\frac{1}{4} \times 3\frac{1}{2}$ in., ornamented with impressed zigzags, pierced by two holes, found within 222; (**224**) portions of another small urn; (**225**) cinerary urn, $15\frac{1}{2} \times 12$ in., ornamented with zigzag lines round rim; (**226**) knife-dagger of bronze, 3 in. long; (**227**) dagger of bronze, $5\frac{3}{8}$ in. long, imperfect; (**228**) portions of ornamented dagger-blade of bronze; (**229**) bead of whitish glass; (**230**) scraper of flint; (**231–236**) chips of flint—James Bell, 1891.

COLLECTIONS FROM SEPULCHRAL DEPOSITS.

[From other Countries.]

ER 1, 2. Viz.—(**1**) portion of knitted fabric, from a cist near Micklegate Bar, York—Dr S. Hibbert Ware; (**2**) lump of hardened clay with marks of human fingers, from a barrow in Jersey—Sir Herbert Eustace Maxwell, 1889.

HUMAN CRANIA FROM EARLY GRAVES.

ET 1–64. Viz.—(**1–3**) from Lundin Links, Largo—Mrs Dundas Durham, 1858; (**4, 5**) from Broomend, Inverury—J. H. Chalmers, 1867; (**6, 7**) from Cockenzie, East Lothian—R. Frazer, 1840, and J. M. Mitchell, 1849; (**8, 9**) from East Lothian; (**10**) from Stonelaws, Mid-Lothian; (**11**) skull and lower jaw and portion of another, from Milton, Tranent—W. T. M'Culloch, 1860; (**12**) from Society, Hopetoun—The Countess of Hopetoun, 1877; (**13**) from Silvermoor, Lanarkshire—D. R. Rankine, 1876; (**14**) from Lesmurdie, Banffshire—Capt. Stuart, 1853; (**15**) from a cist at Duns—W. Stevenson, 1864; (**16**) from Clashfarquhar, Kincardineshire—A. Thomson, 1823; (**17**) from Ninewells—J. Yule, 1863; (**18**) from North Berwick—Dr Daniel Wilson, 1848; (**19**) from West Lothian; (**20**) from Haugabost, Harris—Capt. F. W. L. Thomas, 1860; (**21**) from chambered cairn, Papa Westray—G. Petrie, 1854; (**22**) from Noltland Castle, Westray; (**23–25**) from Orkney—G. Petrie; (**26**) from Dunrobin Castle, Sutherlandshire—Duke of Sutherland, 1854; (**27**) from Loch of Breckigoe, Caithness; (**28–30**) from Airdanesfield, Boyndie, near Banff—David Grieve, 1863; (**31, 32**) portions, from Latheron and Ackergill, Caithness; (**33**) from Juniper Green—Purchased 1851; (**34**) from Kirkliston; (**35**) from Kinaldy, near Kintore—A. Watt, 1856; (**36**) from Kirkhill, Dunbar—I. H. Bowe, 1882; (**37, 38**) from Kirkhill, St Andrews—R. G. Thoms, 1870; (**39**) from St Serf's Chapel, Lochleven—R. Cummin, 1858; (**40**) from Yarrow—Rev. J. Russell, 1865; (**41–46**) from Leith—Dr D. H. Robertson, 1866; (**47–48**) from the precincts of the Ancient St Roque's, Edinburgh—William Ivory, 1851; (**49**) from Burghead—Dr Macdonald, 1861; (**50**) from Saverough, Birsay—James Farrar, 1862; (**51**) locality unknown—Prof. Sir J. Y. Simpson, 1870; (**52**) from Windymains, Haddingtonshire—R. Forman, 1858; (**53**) from Tealing, Mrs Fotheringham, 1870; (**54**) from Arran—Duke of Hamilton, 1863; (**55**) from Kintradwell, Sutherlandshire—Lawson Tait, 1868; (**56–60**) from Keiss—Samuel Laing, 1867; (**61–62**) localities unknown; (**63**) found with brooches, &c., in grave at Pierowall, Westray, Orkney—Dr W. Rendall, 1851; (**64**) larger portion of skull and half of lower jaw, from Kirkpark, Musselburgh—George Lowe, 1888.

HUMAN CRANIA.

[Foreign.]

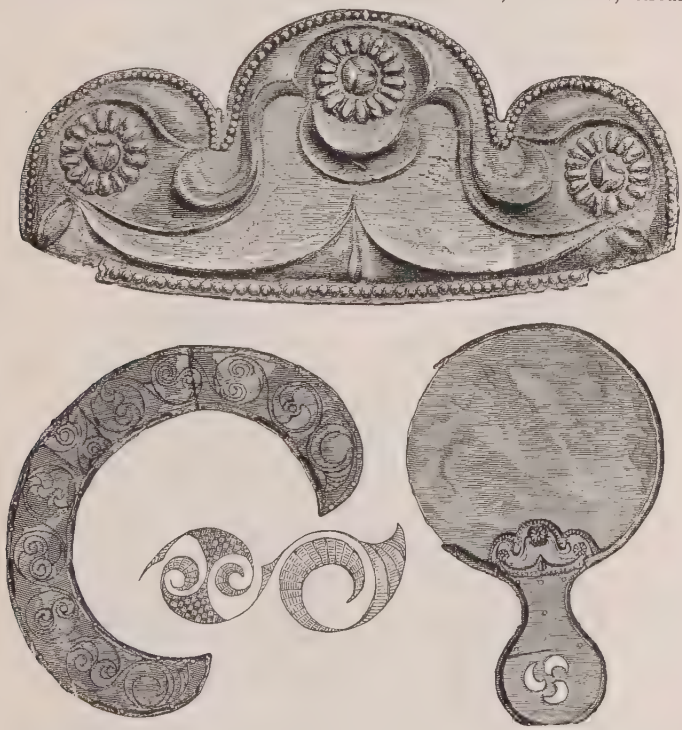
EU 1-11. Viz.—(1) from New Zealand (modern)—J. T. Goodsir, 1833 ; (2) from India ; (3–8) from ruins at Lima, Peru—Dr Archibald Smith, 1860 ; (9) portion of a calvarium, from a cromlech, near Algiers—A. H. Rhind, 1860 ; (10) skull and lower jaw of an Egyptian mummy—Sir J. Y. Simpson, 1866 ; (11) dried head of a New Zealand chief, very curiously tattooed, brought from New Zealand about the year 1818—Sir Arthur Halkett, 1885.

PERSONAL ORNAMENTS, &c.

(Chiefly of Bronze with Celtic Ornamentation.)

In High Floor Case on First Floor, East End of South Side.

FA 1-14. From New Galloway, viz.—(1) bronze mirror, 8 in. dia., circular



FA 1, 2.—Mirror, Ornament on Handle of Mirror, and Gorget.

with handle 5 in. long, with late Celtic ornamentation, both sides alike ;

FA (**2**) bronze "Gorget," longest dia. **15** in., ornamented with spiral scrolls; (**3–5**) bronze belts (?) or mountings, viz.—(**3**) $18\frac{1}{4} \times 1\frac{1}{2}$ in., ornamented in centre with incised spirals, &c., and with raised border; (**4**) $27\frac{3}{4} \times 1\frac{3}{4}$ in., in three pieces, with raised ornament along the middle; (**5**) $17\frac{1}{4} \times 1\frac{1}{8}$ in., tapering to half an inch, in seven pieces; (**6**) bronze plate in five fragments, 27×11 in., with raised border planted round the edge; (**7–11**) fragments of similar plates with similar ornament, but the outer edges curved; (**12, 13**) ornamented studs of bronze, $\frac{7}{8}$ in. dia.; (**14**) portion of cloth in which the articles were folded, found under the quern (BB 7, *shown below the case*) at Balmaclellan—Rev. George Murray, 1861.

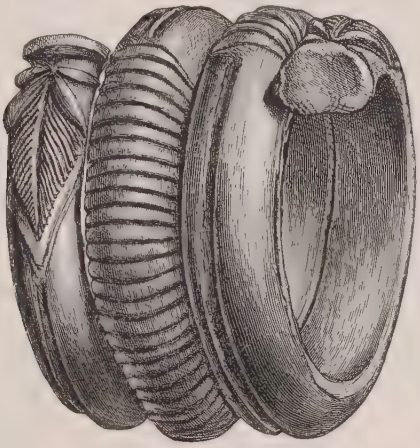
FA 16.—Upper and under Sides.

15. Large Armlet, $4 \times 4\frac{3}{4}$ in. internal dia., $5\frac{1}{2}$ in. in depth, weighing $3\frac{3}{4}$ lbs., with projecting ornaments, and two oval openings, which have been

FA filled with enamel, from Mains of Auchenbadie, Montblairy, Banffshire—Mrs Morrison, 1869.

16. Armlet, $4\frac{1}{2}$ in. internal dia., $4\frac{1}{2}$ in. high, one of a pair from Links of Drumside, Belhelvie, Aberdeenshire—Dr John Stuart, 1853.

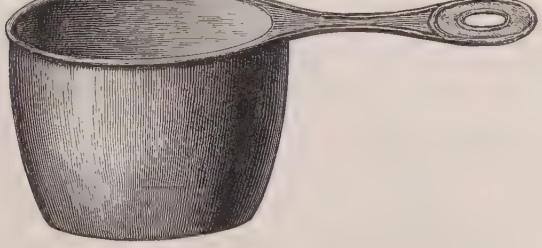
17, 18. From Bunrannoch, Perthshire, viz.—(**17**) $4\frac{1}{2} \times 3\frac{1}{2}$ in. internal dia., 3 in. high, weighing $23\frac{1}{4}$ oz.; (**18**) of similar ornament but with spiral pattern, $4\frac{1}{4} \times 3\frac{1}{2}$ in. internal dia., 3 in. high, weighing $31\frac{3}{4}$ oz.—Acquired 1833.



FA 23.

19. Armlet of Folded or Spiral Pattern, $4\frac{1}{2} \times 4$ in. internal dia., 3 in. high, found near Seafield Tower, near Kinghorn—William Soutar, 1883.

20–22. Casts of Armlets, the character and ornamentation similar to No. 15, viz.—(**20**) $3\frac{3}{4} \times 3$ in. internal dia., $2\frac{7}{8}$ in. high; (**21**) $3\frac{3}{4} \times 3$ in. and $2\frac{3}{4}$ in. high; (**22**) imperfect, $3\frac{3}{4} \times 3$ in. internal dia., 3 in. high, found near Aboyne, Aberdeenshire—Purchased 1882.

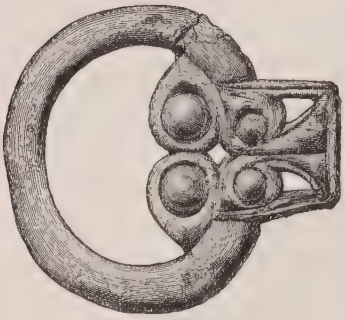


FA 26.

23. Spirally twisted Armlet, $2\frac{3}{8}$ in. internal dia., weight $31\frac{3}{4}$ oz., from Pitalpin, near Dundee—Countess Dowager of Morton, 1827.

24. Armlet, with ornamented ends, $2\frac{1}{4}$ in. internal dia., weight $9\frac{1}{4}$ oz., locality unknown.

FA



FA 28.

FA 30.

FA 31.

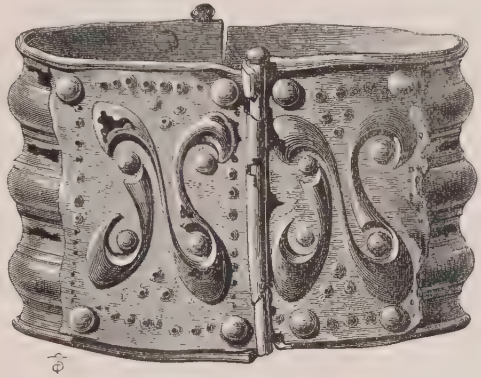
FA 29.

FA

FA 35.

25-28. From Stanhope, Peeblesshire, viz.—(**25**) armlet of bronze, spirally twisted; (**26**) Roman patella, 5¼ in. internal dia., 3¾ in. deep, the handle 5½ in. long, the bottom ornamented with sunk concentric circles; (**27, 28**) small bronze ornaments, oval-shaped, 2½ and 2¾ in. greatest dia.—Exhibited by Sir G. Montgomery, Bart., 1882.

29. Snaffle Bridle-bit, 9 in. long, with ornamented rings, 2½ in. dia., from moss at Birrenswark, Annandale—Dr Robert Clapperton, 1785.



FA 36.

FA 37.

30, 31. Bronze Harness-mountings for Driving-collars, 3½ in. dia., from Hillockhead, Towie, Aberdeenshire—Mrs Bruce, 1864.

32. Harness-mounting for Driving-collar, crescent-shaped, 3¼ in. dia. over the horns, locality unknown.

33, 34. Rings or Armlets, with flat expanded ends, 6½ and 6¾ in. greatest dia., from Cloake, Lumphanan, Aberdeenshire—Joseph Robertson, 1832.

35. Sword Sheath, 23½ × 1¼ in., with late Celtic ornamentation, and raised loop in the middle, from Morton Hall, Pentland, near Edinburgh.

FA 36. Jointed Armlet of late Celtic type, found near Plunton Castle, Kirkcudbrightshire—Dr William M'Ewen, 1859.

37. Jointed Collar of late Celtic type, found near Stitchell, Roxburghshire—Sir James Pringle, 1782.

38, 39. Pair of Massive Mountings of Cast Bronze, found at Henshole, Cheviot, Roxburghshire—Purchased 1881.

40. Crescent-shaped Pendant of Bronze, probably a harness ornament, with Celtic patterns in *champlevé* enamel, from Auchendolly, Kirkcudbrightshire—Major Archibald Hume, 1886.

41, 42. Ring-shaped Harness-mountings for Driving-collars, viz.—(**41**) from Clova, Aberdeenshire—*Sturrock Collection;* (**42**) imperfect, from Kirriemuir—Purchased 1892.

43. Patella of Bronze, $4\frac{3}{4}$ in. dia., with handle $3\frac{5}{8}$ in. long, ornamented with *champlevé* enamel in red, blue, and green, from Linlithgowshire—Purchased 1884.

44. Portion of Bronze Mounting with Celtic zoomorphic patterns inlaid in gold, from Stromness, Orkney—W. G. T. Watt, 1892.

PERSONAL ORNAMENTS, &c.

[From other Countries.]

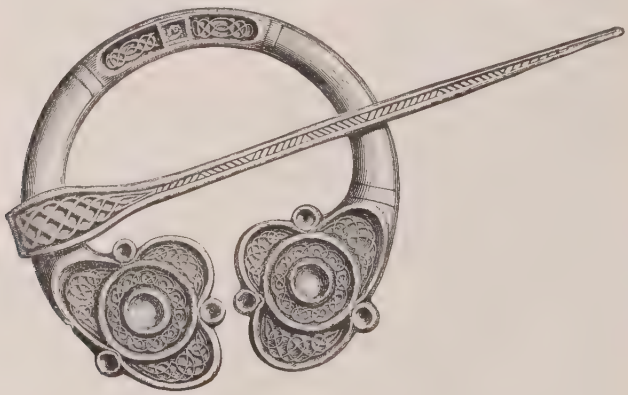
FB 1–4. Viz.—(**1, 2**) bronze spoons, $3 \times 2\frac{1}{2}$ in., from Llanfair, Denbighshire—Rev. E. L. Barnwell, 1863; (**3, 4**) bronze spoons, from Weston, near Bath—James T. Irvine, 1889.

PERSONAL ORNAMENTS, &c.

(Mostly with Interlaced Ornamentation.)

In Floor Case, East End of First Floor, North Side.

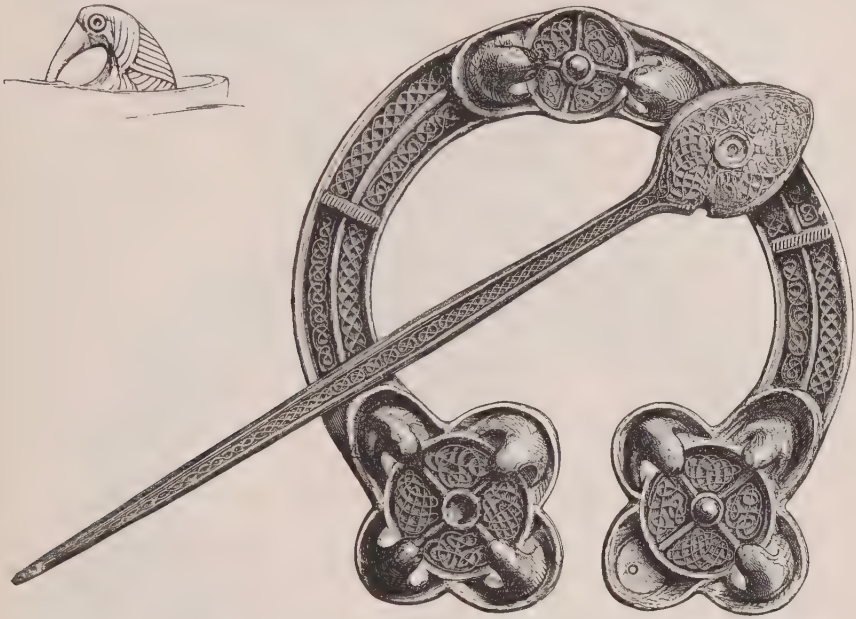
FC 1, 2. Silver Brooches, with interlaced ornamentation, the larger one gold-



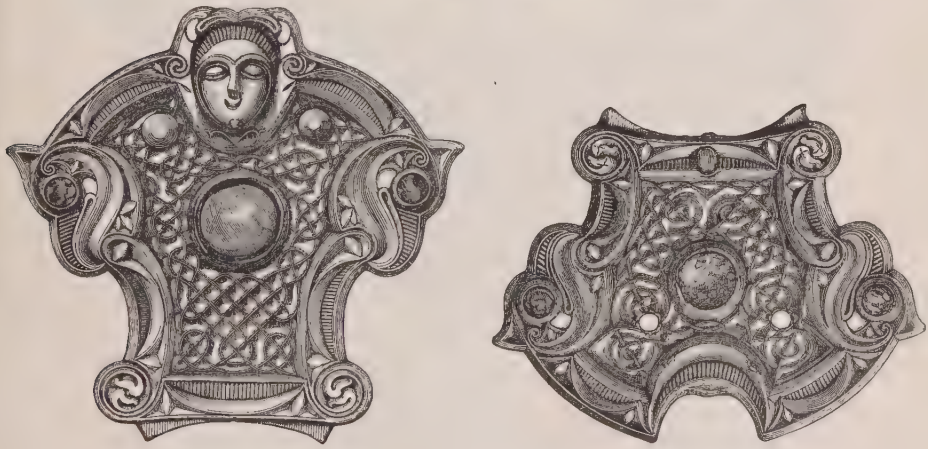
FC 1.

plated, and ornamented with birds' heads, from Rogart—Purchased 1888.

FC 3, 4. Mountings of Bronze Gilt, ornamented with interlaced work and set with



FC 2.



FC 3, 4.

amber, &c., one piece ornamented with human face in high relief, from Perthshire—Mrs Young, 1888.

FC 5, 6. Bronze Penannular Brooches, viz.—(5) $4 \times 4\frac{3}{8}$ in., with interlaced ornament, the pin 7 in. long and with flattened head, (6) $2\frac{1}{2}$ in. dia., plain, with pin 5 in. long, both found in Mull—Deposited by Professor Duns, D.D., 1879.

8. Brooch of Silver Gilt, with amber settings and with panels of interlaced

FC 8.—Obverse.

work, and with runic inscription on back, found at Hunterston, Ayrshire—Purchased 1891.

9. Portion of Silver Penannular Brooch, ornamented with gold filigree work and amber settings, from Achavrole, Dunbeath, Caithness, in 1860—Purchased 1879.

10. Brooch of Silver, ornamented with interlaced and zoomorphic patterns

FC and set with amber, the pin 4⅞ in. long, found near Dunipace, Stirlingshire—*Bell Collection.*

11. Brooch of similar form, with rope-like mouldings and zoomorphic patterns, pin imperfect, purchased in Glasgow—*Bell Collection.*

12–25. Articles from Croy, Inverness-shire, some found by James Shearer,

FC 8.—Reverse.

viz.—(**12**) circular brooch of silver with expanded ends and amber settings, surrounded by double rope-like moulding (broken); (**13**) portion of similar brooch, the expanded end ornamented with gold filigree work and amber settings; (**14**) half of similar brooch of silver, the expanded end ornamented with triquetras, &c.; (**15**) portion of bronze balance beam; (**16–22**) beads of glass and amber, one imperfect; (**23**, **24**) pennies of Coenwulf, King of Mercia (796–818 A.D.); (**25**) portion of silver knitted ornament—Rev. Thomas Fraser, 1875, and Purchased 1886.

FC 26-126. Ornaments of Silver, found at Norries Law, near Largo, Fifeshire, viz.—(**26-28**) circular discs much battered and one imperfect; (**29**) portion of ornament with trumpet and spiral patterns; (**30-32**) pins, two 6¼ in. long, with enamelled heads, the other smaller and imperfect; (**33, 34**) leaf-shaped plates, each bearing two of the peculiar "Symbols of the Early Sculptured Stones of Scotland;" (**35**) spiral finger-ring of three turns; (**36, 37**) massive brooches of solid silver, 5⅞ and 5 in. dia.; (**38**) thin band of silver; (**39**) second brass of Antonia Augusta struck by the Emperor Claudius, 41 A.D.; (**40-126**) small fragments, clippings, &c.—Mrs Dundas Durham, 1864, and Robert Dundas, 1883.

FC 9.

127. Bronze Relic, from Hill of Fortrie of Balnoon, Inverkeithny, Banffshire—Dr John Stuart, 1853.

128. Bronze Object with Open Work and Ring Handle.

129. Portions of thin Plates of Bronze, with embossed chevrony patterns, perforated, from Carse, Argyllshire—Mrs Campbell, 1864.

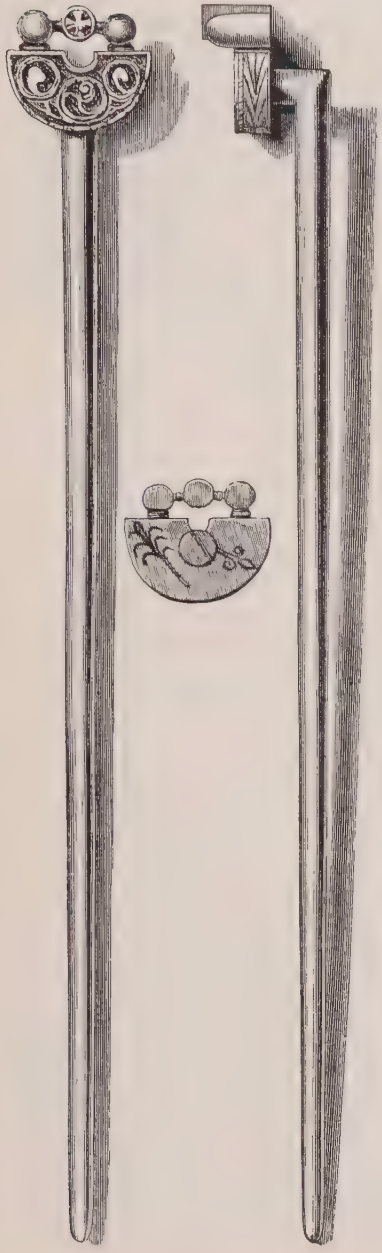
130. Bronze Brooch, 1⅜ in. dia., ornamented with interlaced patterns, &c., from Kirkwall, Orkney—James Johnstone, 1850.

131-134. Bronze Pins, from Doune Hill of Relugas, Nairnshire, viz.—(**131**,

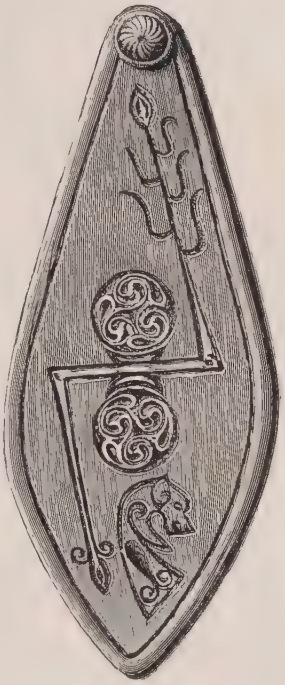
FC 12, 23, 25.

132) 5⅛ and 5½ in. long, with movable ring heads; (**133, 134**) 4⅞ and 5 in. long, minus ring-heads—Lady Dick Lauder, 1861.

FC



FC 30.

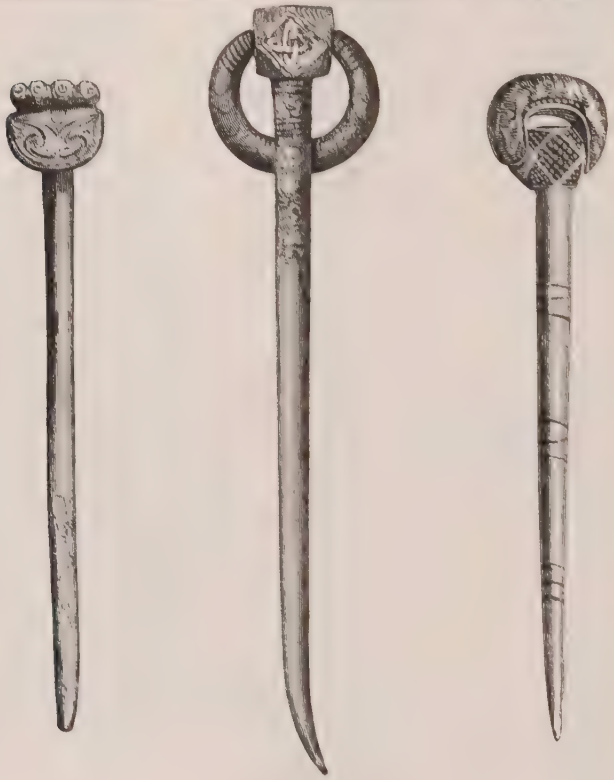


FC 33.

FC 35.

FC 135. Bronze Pin, 6⅞ in. long, with ring head, the square end of upper part of head ornamented, from Birsay—Colonel Balfour, 1863.

136 138. Pins, viz. (136) 3⅞ in. long, with enamelled head, from Urquhart, Elginshire—Rev. James Morrison, 1873; (137) 4½ in. long,



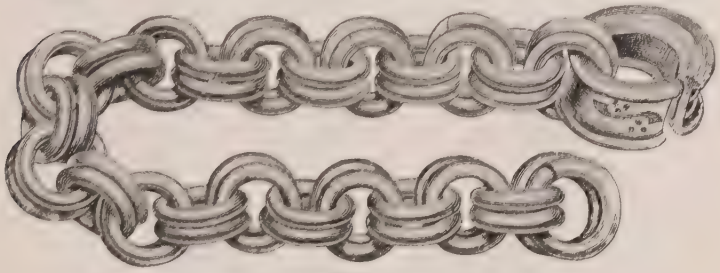
FC 136, 137, 138.

with movable ring head, the upper part of pin ornamented with interlaced work—*Sim Collection*; (138) 3½ in. long, with swivel head, ornamented, from Heisker, Hebrides—T. S. Muir, 1856.

139-146. Bronze Pins, viz. (139) 4⅜ in. long, head rudely ornamented with incised lines, from Perth—Dr R. de Brus Trotter, 1888; (140) 4 in. long, with small movable head—T. Mackenzie, 1856; (141-144) three with solid heads, 3¾, 4, and 4 1/16 in. long, and small ring brooch ⅝ in. dia., from Lismore, Argyllshire—Rev. G. M'Gregor; (145) 2⅛ in. long, with circular open head, from Inverkeillor—Treasure Trove, 1838; (146) 3 in. long, with ornamented flat circular head, from Orkney—Colonel Balfour, 1863.

147. Chain of double Rings of Silver, weighing 44 oz., with penannular terminal ring engraved with one of the symbols of the sculptured stones, found at Parkhill, New Machar, Aberdeenshire—Treasure Trove, 1864.

FC 148. Chain of double Rings of Silver, weighing 93 oz. (without terminal ring), found in digging the Caledonian Canal, near Inverness—Treasure Trove, 1838.



FC 147.

149. Chain of small double Rings of Silver, found near Haddington—Treasure Trove, 1873.

150. Chain of double Rings of Silver, weighing 62½ oz., with penannular ring engraved with two of the symbols of the sculptured stones, from Whitecleugh, Shieldholm, Crawfordjohn, Lanarkshire—Deposited by His Grace the late Duke of Buccleuch, 1880.

151, 152. Bronze Cruciform Ornament and Chain of S-shaped Links, found together at Kingoldrum—Rev. J. O. Haldane, 1867.

153. Penannular Brooch of Bronze, found with the sword (DL 6) and ornament (FE 12) at Gogar Burn, Mid-Lothian—Mrs Bell, 1866.

154, 155. Portions of thin Plates of Bronze, with incised ornamentation, from Craigdarroch, Rossshire—Sir George Mackenzie, 1828.

156, 157. Penannular Ring Brooch of Bronze, 1 in. dia., and oval Bronze Buckle, 1½ in. dia., ornamented at ends with beasts' heads, from Orkney—James Farrar, M.P., 1867.

158. Fac-simile of Celtic Penannular Brooch of Bronze, with square expanded ends, each corner of which is ornamented with an animal's head, the original found near Banchory, Aberdeenshire—Purchased 1888.

FC 153.

159. Fac-simile of Losset Reliquary Brooch of Silver Gilt, 5 in. dia., with interlaced ornamentation, in the centre a capsule surmounted by an oblong pebble of crystal, and surrounded by eight small pillars, the top of each with stone setting—Purchased 1888.

160, 161. Fac-similes, from Orkney, viz.—(**160**) of small brooch of bronze in shape of *cross-pattée*, ornamented with interlaced work, &c., from cist at Moan; (**161**) circular terminal portion of Celtic brooch ornamented with interlaced work, &c., from Stromness—Purchased 1888.

FC 162–170. Collection, from Tummel Bridge, viz.—(**162–164**) silver brooches formed of round rings with expanded and flattened ends, one ornamented

FC 164.

on flattened ends by two rows of dots round the edges, another with two rows of dots on pin, the third plain; (**165–170**) fragments of bronze vessels, &c.—Purchased 1888.

PERSONAL ORNAMENTS, &c.

[From other Countries.]

FD 1–47. Viz.—(**1**) silver ring brooch, $4\frac{3}{4}$ in. longest dia., with broad flattened ends, ornamented with bosses—*Bell Collection;* (**2–18**) bronze penannular brooches, viz.—(**2**) $3\frac{3}{4}$ in. dia., pin imperfect; (**3**) $3\frac{5}{8}$ in. dia., pin imperfect; (**4**) imperfect, $2\frac{1}{4}$ in. dia., minus pin; (**5**) 1 in. dia., pin $3\frac{1}{2}$ in. long; (**6**) $\frac{7}{8}$ in. dia., pin $3\frac{3}{4}$ in. long; (**7**) $2\frac{1}{8}$ in. dia., pin $3\frac{1}{2}$ in. long; (**8**) $2\frac{1}{8}$ in. dia., pin $3\frac{1}{4}$ in. long; (**9**) $1\frac{7}{8}$ in. dia., pin $2\frac{3}{4}$ in. long; (**10**) 2 in. dia., pin $2\frac{3}{4}$ in. long; (**11**) $\frac{7}{8}$ dia., pin 1 in. long; (**12**) $1\frac{5}{8}$ in. dia., minus pin; (**13**) $1\frac{1}{4}$ in. dia., pin $2\frac{5}{8}$ in. long; (**14**) $2\frac{3}{4}$ in. dia., pin $4\frac{3}{4}$ in. long[1]; (**15**) $2\frac{1}{2}$ in. dia., pin $4\frac{1}{2}$ in. long; (**16**) $1\frac{1}{4}$ in. dia., pin 3 in. long; (**17**) $1\frac{1}{2}$ in. dia., minus pin; (**18**) $1\frac{1}{8}$ in. dia., pin $2\frac{1}{4}$ in. long—

FD *ibid.;* (**19**) ring, 1⅛ in. dia., with incised ornament, from Ulster—J. C. Roger, 1856; (**20**) elongated plate of bronze, 3¼ × 2 in., with raised semicircular end, elaborately ornamented with interlaced work—*Bell Collection;* (**21–24**) bronze pins, from 3¾ to 6½ in. long, two with movable heads—*ibid.;* (**25–31**) fac-similes of silver chalice, bronze bowl, and four large penannular brooches of silver, dug up at Rath of Reerasta, near Ardagh, Ireland, viz.—(**25**) chalice, 7 in. high and 9½ in. dia., with exquisite examples of many varieties of Celtic ornamentation; (**26**) bowl, imperfect, 3 × 5½ in., and foot; (**27–31**) brooches of silver, gilt, and highly ornamented—they measure (**28**) 13½ × 5¾ in., (**29**) 11 × 4¼ in., (**30**) 10¼ × 4 in., (**31**) 8¾ × 3⅛ in., plain—Purchased 1882; (**32**) penannular brooch of silver, 2 in. dia., with Celtic ornamentation, from Ridgemount, King's County, Ireland—Purchased 1885; (**33, 34**) torc armlets of silver, thin bands spirally twisted with ends slightly recurved, from Rathcormac, Co. Cork, Ireland—Purchased 1886; (**35**) bow-shaped fibula of silver gilt, with ornamental patterns—Purchased Londesborough Sale, 1888; (**36**) fibula of silver, 5⅜ in. long, with semicircular head, 2½ in. across, with seven projections, &c., from Londesborough Collection—Robert Carfrae, 1892; (**37–47**) three saucer-shaped fibulæ, buckle, and disc of bronze, with incised ornamentation, and richly gilt, and six circular fibulæ of bronze, from Anglo-Saxon tumuli, Long Wittenham, Oxfordshire—Robert Carfrae, 1892.

ORNAMENTS OF GOLD, &c.

In Floor Case, East End of First Floor, North Side.

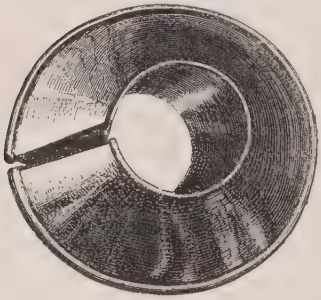
FE 1. Lunette or Crescent-shaped Plate, with expanded ends, ornamented by

FE 1.

incised lines and double rows of punctures, from Southside, near Coulter, Lanarkshire—Adam Sim, 1861.

FE 2. Lunette, ornamented with incised parallel and angular lines, found near Fochabers, Elginshire—Treasure Trove, 1873.

3. Lunette, with expanded ends, ornamented with incised lines and double rows of punctures, found at Achentaggart, Dumfriesshire—Deposited by His Grace the late Duke of Buccleuch.



FE 4.

4–6. Penannular Rings and Circular Capsule of penannular form, found in moss in West Highlands—P. Denny, 1857.

7. Small Capsule of penannular form, found at Gogar, Mid-Lothian, with sword (DL 6) and brooch (FC 153)—Mrs Bell, 1866.

8. Large, thick Penannular Ring, from Bonnyside, Stirlingshire — Treasure Trove, 1852.

9. Penannular Ring, consisting of thin exterior plate of gold enclosing copper core, found in Skye—Rev. Donald M'Queen, 1782.

10–13. Penannular Armlets, with slightly expanded extremities (weighing 484, 394, 355, and 210 grains), found at Ormidale, near Brodick, Arran—Treasure Trove, 1864.

FE 5.

FE 21.

FE 26.

14, 15. Small Penannular Rings, found at Strond, Harris—Purchased 1873.

16. Thick, plain Ring, weighing 1 oz. 8 dwt., found at Parish Church, Kilpatrick-Durham, Kirkcudbrightshire—Treasure Trove.

17–26. From the Hebrides, viz.—(**17–22**) small rings of plaited wires (one imperfect); (**23**) penannular ring, 1 in. dia.; (**24–25**) portions of

FE rings, ; (26) rounded, oblong piece of gold with cut ends—Treasure Trove, 1865.

27-30. Rings, two formed of twisted strands, and two plain, from Stenness, Orkney —Treasure Trove, 1880.

FE 27, 28, 29.

31. Ring, 1 in. dia., of plaited wires, found in Fladda Chuinn, Hebrides—Purchased 1851.

32. Cast of Torc Armlet, with recurved ends, found on Rannoch Moor, Perthshire—Sir James Ramsay, 1850.

33. Torc Armlet, a thin twisted band, with recurved ends, found at Overshill, Belhelvie, Aberdeenshire—Purchased 1851.

34. Torc Armlet, a thin twisted band, with recurved ends, found at Little Lochbroom, Ross-shire—Hugh Mackenzie, 1860.

35-38. Two Torc Armlets, and two Armlets of smaller size, formed of thin bands spirally twisted, with recurved ends, found with thirty others at Urquhart, Elginshire—Rev. Henry Walker, 1857.

38A. Portion of Armlet of Bronze, spirally twisted, said to have been found with the gold armlets (35-38) at Urquhart—H. W. Young, 1890.

39-44. From near St Blane's Church, Bute, viz.—(39) penannular ring (190 grains); (40) small ring of twisted wires (202 grains); (41-43) fillets or bands, with punctulated ornamentation; (44) small bar of silver (228 grains), found with pennies of David I. of Scotland, Henry I. and Stephen of England—Treasure Trove, 1864.

45. Cast of Torc of two thick wires, spirally twisted, about 4 feet long, with long recurved and solid ends, found at Slateford, Edinburgh.

46-48. Viz.—(46) large perforated ornament, enriched with late Celtic ornamentation, and (47, 48) gold pellets, found with gold torcs at Shaw Hill, Cairnmuir, Peeblesshire—John Lawson, 1828.

49. Fac-simile of Cruciform Fibula, found on shore of Moray Firth—Patrick Chalmers, 1851.

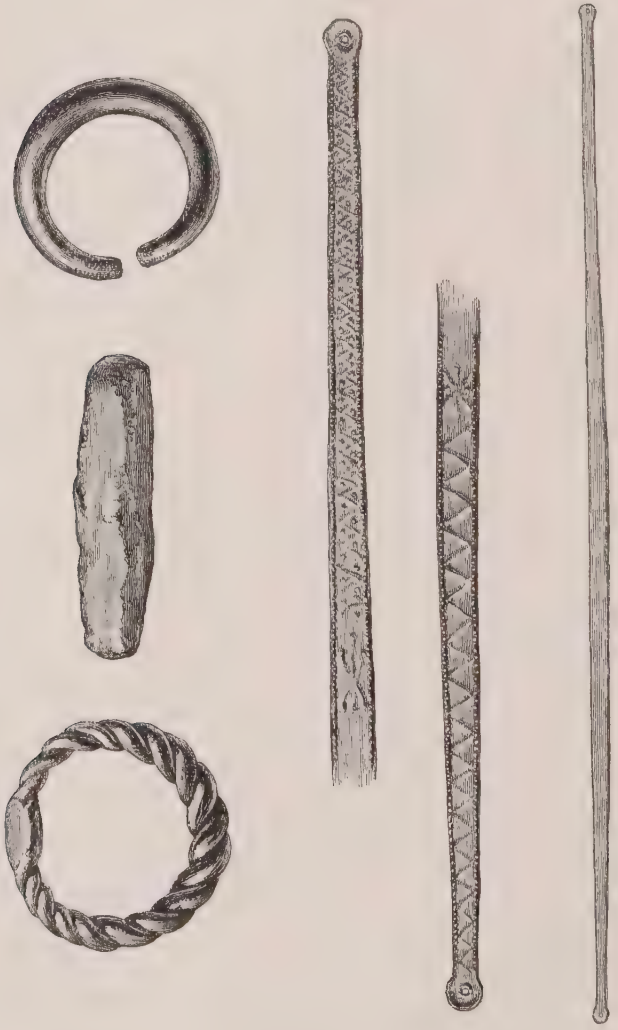
50. Ornament, with stone settings and core of bronze, found near Dalmeny Church, Linlithgowshire.

51. Nugget of Native Gold, from the recent gold workings at Kildonan, Sutherlandshire—Rev. William Ross.

52. Thin Penannular Ring, broken, with bulbous extremities, from the Western Isles—Purchased 1883.

53-56. Three Torcs and fragment of fourth, formed of thin bands spirally twisted, with recurved ends, from Lower Largo—Robert Dundas, 1883.

FE 57. Penannular Armlet, imperfect, with slightly expanding ends, from Penninghame, Wigtownshire—Purchased 1891.

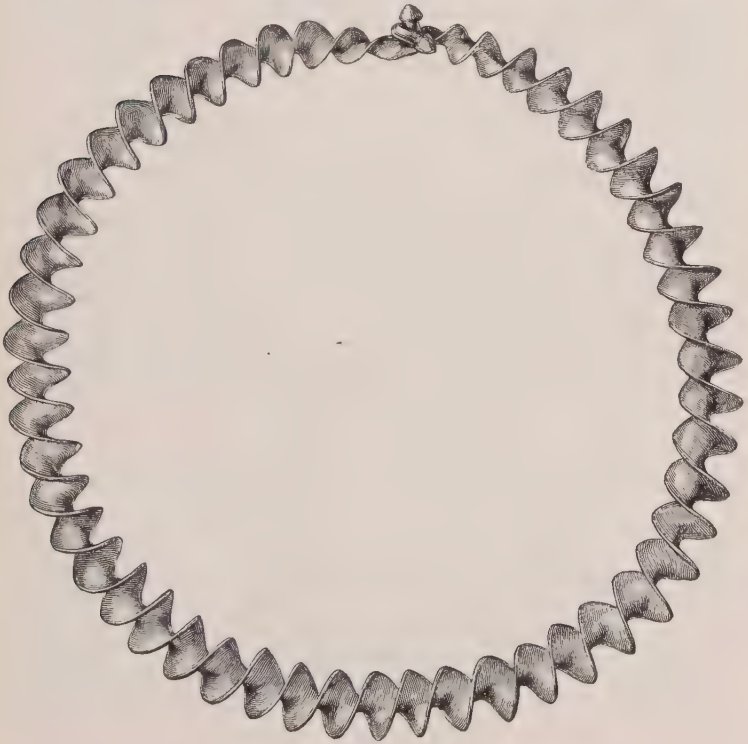


FE 39, 40, 42, 43, 44.

58. Small Penannular Ring, formed of thin plate of gold covering a copper core, from Galloway—Robert Carfrae, 1892.

FE

FE 46. Obverse and Reverse.



FE 53.

ORNAMENTS OF GOLD, &c.

[From other Countries.]

In Floor Case in Wing, East End of First Floor.

FF 1-26. Viz.— (**1**) lunette, with finely-executed ornamentation of bands of triangles filled with parallel lines, &c.—*Bell Collection ;* (**2-5**) small bow-shaped ornaments with expanded ends—*ibid.;* (**6, 7**) small, plain penannular rings—*ibid. ;* (**8, 9**) penannular rings, each $\frac{7}{8}$ in. dia., from Cauca, New Grenada, South America—Augustus W. Franks, 1866 ; (**10-19**) collection from Indian graves near Bogota, United States of Colombia, South America, viz.—(**10**) small string of hollow beads and grasshopper-like figures ; (**11-15**) five images of cast gold, $1\frac{1}{4}$ to $3\frac{1}{2}$ in. long, very rudely modelled ; (**16, 17**) small images, each $\frac{3}{4}$ in. long, attached to the ends of cast gold handles, $2\frac{1}{2}$ in. long ; (**18**) grotesque figure, crowned and well modelled, of dark-coloured gold ; (**19**) ornament, $1\frac{3}{4}$ in. long—Purchased 1875 ; (**20-22**) from Indian graves, Bogota, Colombia, viz.—(**20, 21**) penannular rings, $\frac{1}{2}$ and $1\frac{1}{4}$ in. dia. ; (**22**) crescent-shaped plate, $2 \times 1\frac{1}{2}$ in.—Mrs Powles, 1879 ; (**23**) massive penannular finger-ring with beaded ornamentation, from County Cork, Ireland—Major Thomas Dundas, 1885 ; (**24**) torc armlet of gold, a thin band spirally twisted, and with recurved ends, found with fourteen others at Inishowen, County Donegal, Ireland—Purchased 1886 ; (**25**) small penannular ring, $\frac{5}{8}$ in. dia., from Ireland—Purchased 1886 ; (**26**) small torc, spirally twisted, with expanding ends bent into loops, weighing 251 grains, from Ireland—Robert Carfrae, 1890.

MISCELLANEOUS, CHIEFLY BRONZE.

In Floor Case in Wing, East End of First Floor.

FG 1-10. Viz.—(**1, 2**) from Fife, viz.—(**1**) bronze fibula, and (**2**) iron spear-head, both imperfect, found at Merlsford, Fife—Lieut.-Col. Miller, 1833 ; (**3**) bronze fibula, $6\frac{1}{2}$ in. long, found near Kirkintilloch ; (**4**) harp-shaped bronze fibula, 2 in. long, minus pin, found near Castlecary—Purchased 1849 ; (**5**) harp-shaped fibula, $3\frac{1}{4}$ in. long, minus pin, found near Falkirk —Sir T. Livingstone, 1835 ; (**6**) bronze shears, $7\frac{1}{4}$ in. long, from moss at Birsay, Orkney—Henry Leask, 1878 ; (**7**) bronze ornament, in form of bull, from Lanarkshire—*Sim Collection ;* (**8**) dentated ring, found near Merlsford—Lieut.-Col. Miller, 1833 ; (**9**) harp-shaped fibula of silver, from Ayrshire—Purchased 1885 ; (**10**) bronze mounting in the form of a double loop, found on Easter Eildon Hill—J. Curle, 1867.

MISCELLANEOUS, CHIEFLY BRONZE.

[From other Countries.]

In Floor Case at Entrance Door on Second Floor.

FH 1-83. Viz.—(**1, 2**) double-spiral brooches, viz.—(**1**) $5\frac{1}{4}$ in. long, with spirals $2\frac{1}{2}$ in. dia., pin and catch complete, from near Maçon, France—Robert Carfrae, 1874 ; (**2**) 4 in. dia., imperfect, locality unknown—Purchased 1884 ; (**3, 4**) rings or bracelets, $2\frac{3}{8}$ in. dia., smooth on inside, ribbed transversely on outside, locality unknown—*Sim Collection ;* (**5, 6**) Gaulish bracelets, oval, penannular, expanding at extremities, cut and chased into beaded pattern, ends ornamented with chased work, locality unknown—

FH Robert Carfrae, 1879 ; (**7, 8**) oval, penannular armlets, viz.—(**7**) 3¼ in. dia., flattened on inside, rounded on outside ; (**8**) hollow, beaded on outer margin, 4 in. dia., found near Maçon, France—Robert Carfrae, 1874 ; (**9–11**) solid overlapping armlets, viz.—(**9**) 3½ in. dia., ends ribbed transversely ; (**10**) 3⅛ in. dia., ends ribbed transversely ; locality unknown—Marquess of Breadalbane ; (**11**) 2¼ in. dia., ends ornamented with groups of parallel lines in relief and diagonal lines incised—*Ruthven Collection*, 1884 ; (**12**) bracelet, hollow, one and half twist, ends overlapping, ornamented with bands of engraved lines, from Fiesole, Italy—Robert Carfrae, 1885 ; (**13–16**) armlets, each formed of rod, bent back on itself and carried round in the double to circular form, the ends terminating in twisted wires, viz.—(**13**) 3⅛ in dia—*Ruthven Collection*, 1884 ; (**14**) 3¼ in. dia.—*Sim Collection ;* (**15, 16**) 2⅝ in. dia. ; (**17–20**) ornaments, viz.—(**17**) small circular ring, 1⅜ in. dia., with projecting knobs ; (**18, 19**) spiral rings, each a band of thin bronze ; (**20**) small penannular ring, ribbed transversely on outside, 2 in. dia., said to have been found on West Coast of Scotland, but probably from Continent—Purchased 1884 ; (**21–28**) fragments of brooches of various forms, one perfect, from 1½ to 2 in. dia.—*Sim Collection ;* (**29–32**) enamelled fibulæ, viz.—(**29**) of circular form, found at Colchester, Essex—E. W. A. D. Hay, 1846 ; (**30**) shield-shaped, with blue and yellow enamel—*Ruthven Collection*, 1884 ; (**31**) harp-shaped, imperfect, (**32**) harp-shaped, imperfect, with blue and red enamel, both localities unknown ; (**33–45**) dentated rings, from ⅞ to 2 in. dia., probably Italian, but one from Kew, Surrey (presented by the Marquess of Breadalbane, 1846)—6 *Sim Collection*, 5 *Ruthven Collection*, 1884 ; (**46–50**) miscellaneous, viz.—(**46, 47**) small discs resembling spoked wheels, 1⅛ in. dia. ; (**48**) loop handle, 2⅜ in. dia. ; (**49**) ring, 1⅛ in. dia. ; (**50**) portion of spiral wire brooch ; (**51, 52**) bronze stamps, viz.—(**51**) 2 × ¾ in., with loop-handle on back, bearing in relief the words VENATI NIGIDI ; (**52**) 1½ × ⅝ in., with loop-handle, bearing the word CASSIORVM—*Ruthven Collection*, 1884 ; (**53–59**) bow-shaped fibulæ, viz.—(**53**) imperfect, ornamented with incised lines, &c. ; (**54**) perfect, with incised zigzag lines ; (**55, 56**) perfect, (**56**) with man's head in relief—*Sim Collection ;* (**57**) with bands of parallel lines incised ; (**58**) fibula, 4⅜ in. long, imperfect, ornamented with deeply incised lines, locality unknown ; (**59**) small, perfect, 1¼ in. long ; (**60–74**) fibulæ of various forms and sizes, localities unknown ; (**75, 76**) fibulæ from Italy, viz.—(**75**) cruciform in shape, 3⅝ in. long ; (**76**) 5 in. long, imperfect ; (**77**) dentated mace-head, with three rows of four spikes in each—Purchased Gibson Craig Sale, 1887 ; (**78–81**) small penannular brooches, with recurved ends, ornamented with hatched lines, from Spain—Purchased 1890 ; (**82, 83**) cruciform fibulæ, one mounted with silver, localities unknown—Purchased 1892.

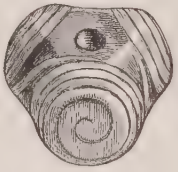
BEADS, RINGS, &c., OF GLASS.

In Desk Cases on First Floor, East End of North Side.

FJ 1-16. Viz.—(**1–4**) beads of green paste, enamelled on the surface with yellow spirals, from Cawdor, Nairn—William Stables, 1864 ; (**5, 6**) beads of blue paste with yellow spirals, from Burghead, Elginshire—Hugh W. Young, 1890 ; (**7, 8**) beads, one of brown and the other of white paste, both with yellow spirals, from Coldstone, Aberdeenshire—Andrew Jervise, 1868 ; (**9**) bead of blue paste with yellow spirals, from Bleiack, Logie Coldstone, Aberdeenshire—Dr Andrew Robertson, 1867 ; (**10**) bead of dark blue paste with yellow spirals, found at Slains, Aberdeenshire—James Dalgarno, 1874 ; (**11**) bead of brown paste with yellow spirals, found in Nairnshire—Dr John Grigor, 1864 ; (**12**) bead of green paste

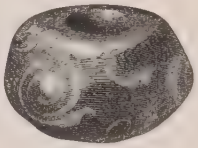
FJ with white spirals, locality unknown—*Linn Collection;* (**13**, **14**) beads, viz.—(**13**) of white paste with yellow spirals, said to have been found with bronze implements at Clova; (**14**) of blue paste with yellow spirals, from

FJ 1.



FJ 10.

FJ 11.



FJ 21.

Beetloun, Aberdeenshire—*Sturrock Collection;* (**15**) bead of brown paste, of triangular form, with yellow spirals, from Aberdeenshire—Purchased 1890; (**16**) bead of white glass with yellow spirals, from Balmerion, Glenrinnes, Banffshire—Purchased 1890.

17–63. Viz.—(**17**, **18**) beads of blue and yellow paste, from Cawdor, Nairn—William Stables, 1864; (**19**, **20**) beads, one of white paste inlaid with bluish green, and half of another of brownish paste, inlaid with yellow, both from Cloister Seat, Udny, Aberdeenshire—*Sturrock Collection;* (**21**) bead of blue glass ornamented with slightly projecting bosses traversed by white spirals, from Brighouse Farm, Logie, Kilmany, Fifeshire—Spencer G. Perceval, 1884; (**22**) bead of blue paste, inlaid with white, from Haughton, Alford, Aberdeenshire—Robert Farquharson, 1867; (**23**) bead of dark brown paste, inlaid with yellow, from Strathlachlan, Argyllshire—W. Ivison Macadam, 1887; (**24–26**) beads, from Wigtownshire, viz.—(**24**) of blue paste, inlaid with yellow, from Kirkmaiden; (**25**) of yellow vitreous paste with blue and white spirals, (**26**) of brown paste, inlaid with yellow, both without localities—Sir Herbert Eustace Maxwell, 1889; (**27**) large bead of brown paste, inlaid with green and yellow, locality unknown—Alexander Ferguson, 1783; (**28–35**) small beads, mostly of bluish glass, some inlaid with white, found near Coulter, Lanarkshire—*Sim Collection;* (**36**, **37**) beads, one of blue and the other of green glass, from Dumbartonshire—James Johnstone, 1849; (**38**) bead of blue paste inlaid with yellow, from Harris—Miss Juliet Macdonald, 1879; (**39**) bead of green glass, from Mosspeeble, Dumfriesshire—Alexander H. Borthwick, 1869; (**40–43**) beads, viz.—(**40**, **41**) of black glass, from Cloister Seat, Udny, Aberdeenshire; (**42**) of light blue iridescent glass, from Monikie, Forfarshire; (**43**) of whitish paste or agate, from Cloister Seat, Udny—*Sturrock Collection;* (**44**, **45**) beads, one of yellow paste, the other of blue paste, enclosing bands of red, white, and green, both from Mouswald, Dumfriesshire—Charles Carruthers, 1889; (**46**) oval-shaped bead of blue paste, each end of which is encircled by two inlaid bands of white paste, found with urn and whetstone (AL 10) at Housgord, Shetland—David Dakers Black, 1866; (**47**) oblong bead of red and yellow vitreous paste, from Forfarshire; (**48–50**) melon-shaped beads of porcelain, viz.—(**48**) green glazed, locality unknown; (**49**) green glazed, from Glenluce—Rev. George Wilson, 1871; (**50**) blue glazed, from Skye—Rev. Donald Macqueen, 1782; (**51**) portions of a ring of white vitreous paste, from Flanders Moss, Stirlingshire—George Cairncross, 1799; (**52**) flat, disc-like bead of blue vitreous paste, from tumulus at Tressness, Sanday, Orkney—Col. David Balfour, 1863; (**53**) ball of rock crystal, 1½ in. dia., probably from a grave in Fife—Purchased 1888; (**54–63**) beads of glass and vitreous paste, some ornamented with inlaid patterns, found in moss at Hillswick, Shetland—Purchased 1885.

BEADS, RINGS, &c., OF GLASS.

[From other Countries.]

In Floor Case, West End of Second Floor.

FK 1-58. Viz.—(**1-47**) beads of glass and vitreous paste, plain and ornamented, from Ireland—*Bell Collection*, &c.; (**48, 49**) ribbed blue bead of vitreous paste, and oblong pellet of lead, from High Peak, Derbyshire—Godfrey Meynell, 1820; (**50, 51**) ribbed bead, and half of another, of porcelain, locality unknown; (**52–56**) ornamented beads of glass and vitreous paste, from Ireland—Professor Wyville Thomson; (**57**) large double globular bead of green paste inlaid with irregular lines of yellow and red, locality unknown—Sir W. Fettes Douglas, 1892; (**58**) necklace of beads of green vitreous paste—Purchased 1884.

BEADS, RINGS, &c., OF AMBER.

In Desk Case, East End of South Side of First Floor.

FL 1-9. Viz.—(**1**) bead, found at Cullen of Buchan, Banffshire—James Paterson, 1860; (**2–5**) beads, viz.—(**2–4**) one oval and two circular beads, probably from Lanarkshire; (**5**) flat, circular, 1¾ in. dia., found at Bizzieberry Hill, Biggar, Lanarkshire—*Sim Collection*; (**6**) bead, from a tumulus in Rossshire—James Drummond, 1849; (**7**) ring-like bead, 1 1/16 in. dia., from Loch Ryan, Wigtownshire—Sir William Wallace, 1866; (**8, 9**) heart-shaped object, 2 in. long, from Aberdeenshire, and small bead, from Balgay, Dundee, Forfarshire—*Sturrock Collection.*

BEADS, RINGS, &c., OF AMBER.

[From other Countries.]

In Floor Case, West End of Second Floor.

FM 1-47. Viz.—(**1**) necklace of large amber beads, with clasp of gilt filigree work, set with turquoises and garnets—Purchased 1882; (**2–47**) beads, from ⅜ in. to 1½ in. dia., principally from Ireland—*Bell Collection*, &c.

BEADS AND RINGS OF JET, STONE, &c.

In Desk Case, East End of South Side of First Floor.

FN 1. Ring, 4½ in. dia., found in moss at Dalry, Ayrshire—Alexander Copland, 1782.

2, 3. Viz.—(**2**) ring of shale, 3 in. dia.; (**3**) bone pin, found with IL 221 in broch at Castletown, Caithness—James Traill, 1787.

4, 5. Rings of Bituminous Shale, viz.—(**4**) 4 in. dia., from Knockando, Elginshire—J. W. Grant, 1863; (**5**) 3½ in. dia., from Skye—Rev. Donald Macqueen, 1784.

6, 7. Beads, ⅜ in. and 1⅜ in. dia., localities unknown.

8. Ring, 2 in. dia., from West Calder—Andrew Purdie, 1872.

9. Ring of Cannel-coal, 1⅛ in. dia., imperfect, no locality—*Sim Collection.*

FN 10. Small Ring, $\frac{3}{4}$ in. dia., from Castle Huntly, Strathbogie, Aberdeenshire—A. G. Anderson, 1863.

11. Ring, 7 in. dia., found at Harden's Hill, near Duns, Berwickshire—Mr Young, 1860.

12. Ring of dark-coloured Lignite, 4 in. dia., found at Hatloch, Tweeddale, Peeblesshire—Dr R. Clapperton, 1783.

13. Core of Ring of Cannel-coal, found with others at Whiting Bay, Arran.

14. Portion of large Ring, from Links, near Leuchars—R. Miln.

15. Bead, $1\frac{1}{4}$ in. long, from Bizzieberry Hill, Biggar—*Sim Collection.*

16. Bead of Cannel-coal, $4\frac{1}{2}$ in. long, found on Watch Hill, Loch Skene, Moffatdale—William Brown, 1879.

17. Bead-like Ornament of Lignite, 6 × 3 in., from Pencaitland, East Lothian—A. Trevelyan, 1870.

FN 16, 17.

18. Bead of Mottled Stone, found in river Lyon, near Fortingall—Purchased 1883.

19. Bead of Mottled Brown Stone, $1\frac{5}{16}$ in. dia., found near Inverness—Colonel Leon de Waxell, 1809.

20. Two small Beads of Spar, each $\frac{1}{4}$ in. dia., from grave at Strathfleet, Sutherlandshire—J. C. Wintour, 1873.

21, 22. Beads from Orkney, viz.—(21) of jasper, $1\frac{1}{8}$ in. dia., from Deal, Evie ; (22) of bone, $\frac{7}{8}$ in. dia., from St Ola—G. Petrie, 1877.

23. Small Stone Bead with small Bronze Ring through it, from St Fort, Fife—James Waddell, 1881.

24. Bead of Stone of oblong form, $\frac{3}{4}$ in. in greatest length, from Torrisdale, Sutherland—Hew Morrison, 1882.

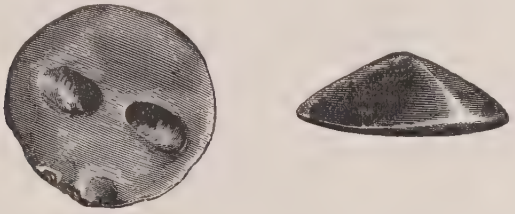
25. Bead or Ring of decomposed Steatite, $1\frac{3}{4}$ in. dia.—Hon. A. Gordon, 1865.

26. Bead of Steatite, $\frac{7}{8}$ in. dia., from Glenfiddoch, Banffshire—A. G. Anderson, 1863.

FN 27–42. Casts of 12 large Beads, from 1⅛ to 4⅞ in. long, and four rudely-shaped pieces of amber, originals found with celt (AF 135) at Cruden—J. Sturrock, 1880.

43. Round Ornament, 3 in. long, with oblong opening in centre, from Skye—Rev. D. Macqueen, 1784.

44. Button, 2 in. dia., found on Crawford Moor, Lanarkshire—James Drummond, R.S.A., 1856.



FN 44.

45–48. Beads, viz.—two of amber, and two small naturally perforated water-worn flints, from camp at Long Yester, East Lothian—James Robb, 1881.

49. Ribbed Bead of Steatite, perforated from each side, from Castle Rock, Dumbarton—James Robertson, 1884.

50. Circular Disc of Shale, 4¼ in. dia., found in drain at Saline, Dunfermline—Rev. William Finlay, 1886.

51, 52. Portion of large Ring of Jet, and small piece of another, from Stevenston Sands, Ayrshire—R. W. C. Patrick, 1879.

53. Rudely-chipped Disc of Jet, with perforation ⅝ in. dia., from Louden, Penninghame, Wigtownshire—Purchased 1888.

54–59. Three small round Beads, one large and two round oval-shaped of jet, all found at Mousewald, Dumfriesshire—Charles Carruthers, 1889.

60. Horn-shaped Pendant of Jet, 2⅜ in. long, with groove round middle, on one side apparently engraved with representation of boat containing two persons, from Skirling, Peeblesshire—Rev. George Wilson, 1887.

61. Small Bead or Tableman of Serpentine, ornamented, from Nairn—Dr John Grigor, 1864.

BEADS AND RINGS OF JET, STONE, &c.

[From Ireland.]

In Floor Case, West End of Second Floor.

FO 1 9. Viz.—(1–4) large rings of jet—*Bell Collection;* (5–9) small bead of glass, three small beads of stone, and large oval-shaped bead of jet—Sir Herbert Eustace Maxwell, Bart, 1889.

ROMANO-BRITISH.

POTTERY, GLASS VESSELS, &c.

In High Floor Case on Ground Floor, East End of North Side.

FR 1-248. Viz.—(**1-87**) from Roxburghshire, viz.—(**1**) fragments of lustrous ware, chiefly with figures in relief; (**2**) fragments of jar of bluish-black ware, ornamented on shoulder with traced lines; (**3**) mortarium, 11 in. dia., imperfect; (**4-8**) fragments of mortaria; (**9-29**) fragments of amphoræ; (**30-44**) fragments of rims of various vessels of red, black, and grey ware; (**45-70**) fragments of various vessels of red, black, and grey ware; (**71, 72**) fragments of brick; (**73**) tall cup, ornamented with incised circle winding spirally round the vessel; (**74**) oyster-shell; (**75**) rounded mass of lead; (**76**) horse's teeth; (**77-80**) skulls of ox (*Bos longifrons*); (**81, 82**) of red deer (*Cervus elaphus*); (**83**) of pig (*Sus domesticus*); (**84**)

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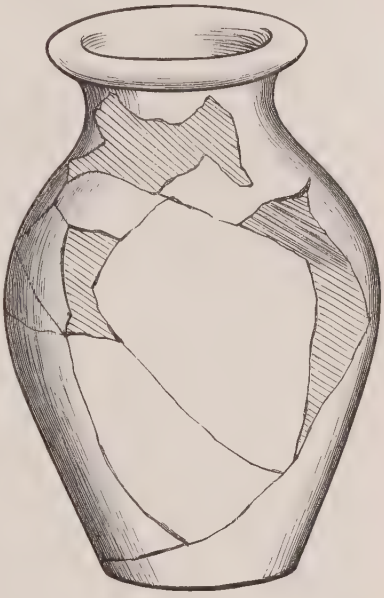
human skull; (**85**) iron spear-head; (**86**) coins of Hadrian, Domitian, and Nero; (**87**) urn—all found in pits and mounds near Newstead—Dr J. A. Smith, 1864; (**88-123**) articles found in a Roman villa at Inveresk, viz.—(**88**) vessel of black ware, 7 × 8 in., imperfect; (**89-101**) fragments of various vessels of black, grey, and red lustrous ware; (**102-105**) fragments of mortaria (one bearing potter's stamp—a branch and leaves); (**106-109**) rims of water-jars; (**110, 111**) pipe-tiles; (**112**) floor-tile; (**113**) figure of hand pressing grapes; (**114-123**) deer-horns and bones of animals—Adam de Cardonell, 1783, A. Handyside Ritchie, 1850, Admiral Sir A. Milne, 1865; (**124**) vase of black ware, globular, 3½ in. high, from Inveresk—J. Gavine, 1879; (**125-179**) other articles found at Inveresk, viz.—(**125-129**) fragments of mortaria and other vessels of red lustrous ware; (**130-146**) fragments of rims of various vessels of black, red, and grey ware; (**147-159**) fragments of vessels of black, red, and grey ware; (**160**) mortarium of grey ware, imperfect, 13½ in. dia., with potter's mark—a fern-leaf on rim; (**161-167**) fragments of rims of mortaria, several with potter's mark; (**168**) water-jar of reddish clay, 10½ × 8 in., imperfect; (**169**) dolium of reddish clay, 27 × 22 in., imperfect; (**170**) vase of black ware, 4½ × 4½ in., ornamented with dots in relief, imperfect; (**171**) dish of black ware, 4 in. high, 9½ in. dia., imperfect; (**172-176**) lower portions of vessels of black and grey ware; (**177**) coin of Trajan (second brass), denarius of Hadrian, gilt ornament, and fragment of glass; (**178**) teeth of various animals—Thomas Proudfoot, William Stevenson, and Purchased 1879; (**180-181**)

FR

torsos of male or female figure in red clay, found at West Kilpatrick, Dumbartonshire ; (**182**) figure of a boar in clay, found at Birrenswark, Annandale, Dumfriesshire—Rev. J. Jaffray, 1851; (**183, 184**) fragments of pottery, from Grahamston, near Falkirk ; (**185**) portion of red lustrous ware, from Cramond, near Edinburgh ; (**186 - 188**) portions of Samian ware, found at Falkirk—E. W. A. D. Hay ; (**189 - 192**) portions of Samian ware (with potter's stamp), and of black and grey ware, from Castlecary —Dr D. Wilson, 1850 ; (**193**) fragment of dark red pottery, with figure of Satyr embossed in relief, found near Kirkintilloch — E. Hay, 1846 ; (**194**) red clay spoon, from Clifton, Edinburgh—P. F. Tytler, 1827 ; (**195-198**) lamps of terracotta, viz.— (**195**) from Castlecary ; (**196**) from Birrens, Dumfriesshire ; (**197**) from Chirnside, Berwickshire; (**198**) from Dumfriesshire ; (**199**) portion of brick tessellated pavement, from floor of bath at Birrens —Dr R. Clapperton, 1784 ;



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(**200-203**) portions of glass vessels, found with Roman pottery, &c., in pits near junction of Almond and Tay—Messrs Anderson and Marshall, 1781 ; (**204-207**) portions of glass vessels, viz.— (**204**) from Birrens—Alexander Copland, 1782 ; (**205**) Closeburn, Dumfriesshire — Sir C. G. S. Menteith ; (**206**) from Castlecary—Earl of Zetland, 1852 ; (**207**) from Falkirk ; (**208**) upper part of jar of red clay, with handles ; (**209**) handle of amphora, stamped M.P.F.—John Erskine, 1781 ; (**210**) handle of amphora ; (**211**) fragments of glass vessels ; (**212**) vase of coarse reddish-brown earthenware, 4½ in. high, unsymmetrical in form ; (**213**) fragments of red and grey pottery, portion of silver coin, and fragment of small bronze ring, from Kaims, Mid-Lothian—Sir William F. Douglas, 1882; (**214**) vessel of red clay, 10 × 9 in., tapering to the bottom, with band of painted ornament round the shoulder, from Raw Camp Lime Works, Mid-Calder—Countess Dowager Morton, 1827 ; (**215-218**) charred wheat, from Roman station on the Forth and Clyde Canal,

FR 170.

FR J. Robison, 1827, and some from Maudslie Law, Lanark; (**219**) vase of alabaster, imperfect, $14\frac{1}{2} \times 9\frac{1}{4}$ in., found in railway cutting, near Grahamston in 1849—Dr J. A. Smith, 1849; (**220–222**) fragments of mouths and handles of amphoræ, from Lanarkshire—*Sim Collection;* (**223**) bronze statuette of Mercury, $4\frac{5}{8}$ in. high, from Throsk, near St Ninians, Stirlingshire — Miss Jeffrey, 1884; (**224**) bronze handle of large vessel, with head of Medusa, a deer, &c., and partly inlaid with silver, from Cairnholly, Kirkcudbright—Sir Herbert E. Maxwell, 1889; (**225**) portion of large amphora, found near Meigle, Perthshire—H. J. Fitchie, 1855; (**226**) bronze statuette of Mercury, $4\frac{3}{4}$ in. high, from Blairbuy, Wigtownshire—Sir H. E. Maxwell, 1889; (**227–248**) from Eskgrove, Inveresk, viz.—(**227–229**) fragments of Samian ware, one inscribed VICTOR; (**230–239**) fragments of vessels of black ware, some with incised lines; (**240**) fragment of rim of mortarium; (**241–243**) fragments of red tiles; (**244**) fragment of side of dolium; (**245**) portion of rim and side of jar; (**246**) iron chisel-like implement; (**247, 248**) fragments of deer-horn, showing marks of cutting—Charles Stewart, 1892.

POTTERY, GLASS VESSELS, &c.

[From other Countries.]

In Wall Case, North Side of Second Floor.

FS 1–184. Viz.—(**1–52**) from Colchester, viz.—(**1–5**) lamps; (**6, 7**) fragments of red lustrous ware; (**8, 9**) fragments of black and grey ware; (**10, 11**) fragments of rims of mortaria; (**12–17**) fragments of mouths, necks, and handles of amphoræ; (**18**) ball of red clay; (**19**) fragment of bottom of vessel of black ware; (**20**) bottle-shaped vessel of red clay, imperfect; (**21–24**) vases of light grey ware, from $2\frac{3}{4}$ to $4\frac{3}{4}$ in. high; (**25**) lid of vase, $1\frac{1}{2}$ in. dia.; (**26**) cup-shaped vase of reddish ware, $2\frac{1}{8}$ in. high; (**27, 28**) vases of reddish-brown ware with slender necks, $7\frac{3}{4} \times 4\frac{1}{2}$ in. and $7\frac{1}{4} \times 5\frac{1}{2}$ in.; (**29, 30**) vases of red clay, 5 in. high, ornamented with figures in relief, both imperfect; (**31**) vase of black ware, ornamented with white circles, $4\frac{1}{2}$ in. high, imperfect; (**32**) vase of black ware, $3\frac{1}{2}$ in. high; (**33**) vase of black ware, $4\frac{3}{8}$ in. high; (**34**) vase of yellowish-brown ware, 4 in. high; (**35**) vase of brown ware, $8\frac{1}{2} \times 7$ in., imperfect; (**36**) urn of blue clay, $8 \times 7\frac{1}{2}$ in.; (**37**) urn of reddish-brown ware, $9 \times 8\frac{1}{2}$ in., imperfect; (**38–40**) urns of dark-blue ware; (**38**) $6\frac{3}{4} \times 7\frac{3}{4}$ in.; (**39**) urn, $10\frac{1}{2} \times 10\frac{1}{2}$ in., imperfect; (**40**) $10 \times 8\frac{1}{2}$ in., ornamented with dotted pattern, imperfect; (**41**) chaufferette of red ware; (**42**) figure of boar in red clay; (**43**) clay cone; (**44, 45**) glass bottle and upper portion of glass vessel; (**46**) small altar of purbeck marble; (**47–49**) fragments of tops of vessels of grey ware; (**50**) bent implement of iron; (**51**) portion of brick; (**52**) vase of red clay, $5\frac{1}{2} \times 2\frac{1}{2}$ in.—E. W. D. Hay, 1827 and 1846; (**53**) cup of reddish ware, $4\frac{1}{2}$ in. dia., unornamented—Sir W. Simpson, Bart., 1870.; (**54–57**) lamps, viz.—(**54**) for three wicks, found at Chester; (**55**) at Bath; (**56**) at Moorgate, London—Marquess of Breadalbane, 1846; (**57**) at Whitelaw, Kirkhaugh, Northumberland—James S. Menteith, 1833; (**58–61**) vases, &c., viz.—(**58**) shallow dish of black ware, with upright sides, 5 in. dia.; (**59**) shallow dish of red lustrous ware, with two handles, 6 in. dia.; (**60**) vase of grey ware, $5\frac{3}{4} \times 4$ in.; (**61**) vase of black ware, $5\frac{1}{2} \times 4\frac{3}{4}$ in., found in stone coffins at Portland Isle—W. Simson, 1855; (**62**) vase of grey ware, $5\frac{1}{4} \times 5\frac{1}{4}$ in., from Purlieus, near Wandsford, Northampton—C. W. Peach, 1868; (**63**) shallow dish of red lustrous ware, $7\frac{1}{4}$ in. dia., from Chester; (**64–67**) fragments, viz.—(**64**) of rim of vessel of black ware and boar's tusks; (**65**) of tessellated pavement; (**66**) of glass vessel; (**67**) of mortarium, from Aldgate, London—C.

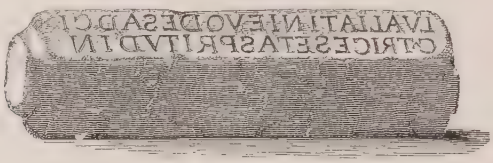
FS Roach Smith, 1849; (**68**) portion of a mortarium, from Wroxeter, Shropshire—Claud Hamilton, 1861; (**69–88**) fragments of pottery, glass, &c., viz.—(**69**, **70**) portions of mortaria of red clay, from Charter Houses, Mendip; (**71–78**) fragments of red and yellow ware; (**79–83**) of red lustrous ware; (**84–86**) of glass, from Bath; (**87**) bottom of vessel of brown clay, perforated, from Wilts; (**88**) piece of lead—James T. Irvine, 1881; (**89**) spoon of red clay, from Malta—Lieut.-Col. Yule, 1849; (**90–92**) from Bavay, France, viz.—(**90**) narrow-necked vessel of red ware, $6\frac{3}{4}$ in. high; (**91**) shallow dish of red ware, $6\frac{1}{4}$ in. dia.; (**92**) shallow dish of black ware, 8 in. dia.—E. W. A. D. Hay; (**93–95**) red lustrous ware, from Tangiers, Africa, viz.—(**93**) cup-shaped dish, $3\frac{3}{4}$ in. dia.; (**94**) shallow dish with upright sides, 4 in. dia.; (**95**) shallow dish—E. W. A. D. Hay; (**96**) fragment of red lustrous ware, from Alicante, Spain; (**97**, **98**) fragments of red lustrous ware, found in London—E. W. D. Hay, 1827; (**99–102**) vases of dark clay, viz.—(**99**) $4\frac{3}{8} \times 4\frac{3}{4}$ in., of peculiar form, from North of France; (**100**) $3\frac{1}{4} \times 4\frac{1}{4}$ in., found near Valenciennes; (**101**) $4\frac{1}{4} \times 2\frac{3}{4}$ in. dia., and (**102**) 3×3 in., found near Cambray—*ibid.*; (**103–105**) shallow vessels, found adhering together, filled with roots of moss, locality unknown; (**106**) vessel of red clay, $3\frac{1}{2} \times 3\frac{1}{2}$ in., locality unknown; (**107**) small vase of black ware, $2 \times 2\frac{1}{2}$ in., containing small brass coins of Tetricus, locality unknown; (**108**) lamp of black ware on stand, locality unknown; (**109–141**) articles, viz.—(**109**) vessel of red lustrous ware, $6\frac{1}{2}$ in. dia.; (**110–112**) fragments of red lustrous ware; (**113**) mouth of vessel of red lustrous ware in form of lion's head; (**114–120**) fragments of rims of mortaria of grey ware; (**121**, **122**) fragments of mouths and handles of amphoræ of grey ware; (**123**) of vessel of black ware; (**124**) of handle of chaufferette of red ware; (**125–129**) necks of vessels of grey and blue ware; (**130–132**) of pedestals of vessels; (**133–139**) of bottoms, &c., of vessels of red and blue ware; (**140**, **141**) of glass, localities unknown; (**142**) portion of wall of Theodosius at London; (**143–152**) portions of fresco-painting, tessellated pavement, and pottery, from Seavington, Somersetshire; (**153–159**) portions of fresco-paintings, found with Roman remains in London—C. Roach Smith, 1849; (**160–166**) portions of fresco-painting, locality unknown—William Dyce, 1830; (**167**) lower jaw of *Bos longifrons*, 16 in. long, from Housesteads, Northumberland—Alexander Laing, LL.D., 1878; (**168–178**) from Bath, Somerset, viz.—(**168**) bottom of vessel of red lustrous ware; (**169**) neck of small vessel of red ware; (**170**, **171**) fragments of ornamented ware; (**172–178**) fragments of Roman glass—J. T. Irvine, 1880; (**179**) piece of wooden pile, from the site of Roman bridge near Newcastle-on-Tyne—Rev. Dr J. Collingwood Bruce, 1884; (**180**) fragment of rim of dish of Samian ware, from Clermont Ferrand, France—Sir H. E. Maxwell, 1889; (**181–184**) wedge-shaped hand bricks or supports for burning pottery in Romano-British kilns, viz.—(**181**) from Woodstone, Huntingdonshire—J. T. Irvine, 1888; (**182–184**) from Croyland—A. S. Canham, 1888.

ORNAMENTS, IMPLEMENTS, &c., OF BRONZE AND IRON.

In High Floor Case, North Side of Ground Floor.

FT 1–40. Viz.—(**1**) bronze patella, from palace, Crailing, Roxburghshire—Dr J. A. Smith, 1862; (**2–4**) found at Longfaugh, Crichton, Mid-Lothian, viz.—(**2**) bronze patella; (**3**) penannular brooch; (**4**) clasp or handle—The Earl of Stair, 1863; (**5**, **6**) double bronze colander (one fitting inside the other), found near Lanark—Mrs Miller; (**7**) bronze handle of vase, 6 in. long, from East Lothian; (**8–10**) found in Annandale, viz.—(**8**) bronze handle of patera, terminating in an animal's head; (**9**, **10**) bronze feet

FT of vessels; (**11**) bronze strigil, found near Cramond; (**12**) bronze stand, triangular, found near Falkirk—E. W. A. D. Hay, 1846; (**13**) bronze head of Roman standard, inscribed DE STATIONE C. CAESARIS AVGVSTI; (**14**) bronze key found in a moss near North Berwick Law, East Lothian; (**15–18**) two buckles, belt mounting, and fragment of bronze vessel, found near Castlecary—Purchased 1849; (**19**) portion of bar of wrought iron, found with Roman pottery at Birrens, Annandale; (**20, 21**) iron axe-head and portion of amphora, from Strageath, near Ardoch, Perthshire—J. S. Hepburn, 1864; (**22–24**) bronze stamps, viz.—(**22**) inscribed TVLLIÆ



FT 25.

TACITÆ, from Carrington, Mid-Lothian, (**23**) inscribed SAGITTI, (**24**) inscribed DOMITI PRIMITI, localities unknown; (**25**) oculist's stamp of stone, from Tranent, Haddingtonshire, on one side is—

{ L. VALLATINIA PAL°CR°
{ CODES AD DIATHESIS

in the other—

{ L. VALLATINIE EVODES AD CI
{ CATRICES ET ASPRITVDIN

—E. W. A. D. Hay, 1846; (**26–37**) casts of other similar stamps; (**38**) handle of bronze vessel, 6 in. long, from East Lothian; (**39, 40**) bronze lamp and bronze eagle, from Currie, near Borthwick, Mid-Lothian, 1831.

ORNAMENTS, IMPLEMENTS, &c., OF BRONZE AND IRON.

[From other Countries.]

In Wall Case, North Side of Second Floor.

FU 1–22. Viz.—(**1–4**) articles of bronze, from Colchester, viz.—(**1**) arm purse; (**2**) hollow ring or bracelet; (**3**) key; (**4**) strigil, imperfect; (**5**) bones of birds—E. Drummond Hay, 1846; (**6–10**) articles found at Kew, viz.—(**6–9**) claw-foot and handles of vessels; (**10**) circular bottom of vessel; (**11–14**) found at Little Chester, near Derby, viz.—(**11**) portions of bone comb; (**12, 13**) bronze spoons; (**14**) bronze key—Godfrey Meynell, 1820; (**15**) bronze vase, 4 in. high, dug up in Fetter Lane, London—Marquess of Breadalbane, 1846; (**16**) circular object of bronze, from Bar-le-Duc, Old Lorraine—Rev. E. L. Barnwell; (**17, 18**) iron spear-head and long-handled comb of bone, found in Roman camp, Hamhill, Somersetshire—J. T. Irvine; (**19–21**) Roman coin-moulds of clay, and small figure in clay; (**22**) bronze figure of Hercules, from Ashley Rectory, Staffordshire—Lieut. Hardinge, 1868.

ALTARS AND INSCRIBED STONES, &c.

On Ground Floor, East End, Both Sides.

FV 1–4. Altars from Birrens, Middleby, Annandale, Dumfriesshire, viz.—(**1**) dedicated by soldiers in the 2nd Cohort of the Tungrians to the goddess Ricagambeda; (**2**) by the Rhaetians serving in the 2nd Cohort of the Tungrians, to Mars and Victory; (**3**) by Frumentius, a soldier in the 2nd Cohort of the Tungrians, to all the gods and goddesses; (**4**) by the 1st Nervian Cohort of the Germans to Fortune—The Senatus of Edinburgh University, 1866.

5–9. From Birrens, Middleby, viz.—(**5**) sculptured figure of the goddess Brigantia, winged and crowned, standing in niche, with spear in right hand and globe in left; (**6**) altar dedicated to Mercury; (**7**) inscribed pedestal of statue of Mercury, $31 \times 14\frac{1}{2}$ in.; (**8**) head of female, with hair rolled back at the sides; (**9**) portion of stone inscribed LEGIO VI . V . P . F.—Sir George Clerk, Bart, 1857.

10–13. Inscribed Stones from Craigend, Croy, Dumbartonshire, viz.—(**10**) legionary stone, 10×5 in., inscribed LEG V; (**11**) $9\frac{1}{2} \times 6\frac{1}{2}$ in., inscribed LEG . VI . V . I . C . R . F; (**12**) upper part of small altar, 9×8 in., with moulded top, and two lines of defaced inscription; (**13**) centurial stone, $8\frac{1}{2} \times 4\frac{1}{2}$ in., with defaced inscription—Sir George Clerk, 1857.

14. Altar, 3 feet 3 in. high, 17 in. square, with richly moulded top and base having on their sides a wreath, bow, and quiver, and on the fourth side a defaced inscription, from Auchenvole, near Falkirk—Sir George Clerk.

15. Legionary Stone, 11×6 in., inscribed LEG . II . AVG . FECIT, from Cramond—Sir George Clerk.

16. Monumental Stone, dedicated to the Dii Manes of a native soldier of the Brigantes, found near Falkirk—James Colquhoun, 1781.

17. Centurial Inscription, from Castlecary, Stirlingshire, inscribed CHO VI O ANTO ARATI—Earl of Zetland, 1851.

18. Portion of the Leg of Statue in Marble, from Castlecary.

19–21. Sculptured Fragments, from Birrens, Dumfriesshire, viz.—(**19**) stone, showing human head with horns in relief, and inscription—Sir David Brewster, 1810; (**20**) head, apparently of a Roman soldier, portion of statue; (**21**) part of slab, showing the lower portion of figure of Mercury, standing with one foot on a globe—Purchased 1851.

22. Altar, inscribed I . O . M . COH . V . GALL CVI PREEST I MINEHONVS TERTVLLVS PRAEF V . S . L . L . M, &c., from Cramond—The Faculty of Advocates.

23. Altar of Marble, with moulded panel and niche in front, containing bust of a youth, and inscription DIS MANIBVS . C . IVLIO . RVFO . VIX . ANN . XVIII . M . VI . PIENTISSIMO . PARENTES . ARAM . POSVERVNT . (locality unknown)—Edinburgh Academy Directors, 1864.

24. Cast of Stone Slab, with figure of boar in relief, the badge of the Tenth Legion, found near Newstead, Roxburghshire.

25. Portion of Red Sandstone Moulding, showing twisted rope pattern, found in underground chambers at Newstead—Dr J. A. Smith.

26. Altar, dedicated CAMPESTR . SACRVM, &c., found near Newstead, Roxburghshire—Faculty of Advocates.

FV 27. Sculptured Legionary Tablet of Sandstone, 9 × 3 feet, found near the end

FV 27.—Roman Slab, from Bridgeness, Carriden.

of the Roman Wall at Bridgeness, Carriden, on the Forth. The centre panel has an inscription, which may be translated :—

FV To the Emperor, Cæsar Titus Ælius Hadrianus Antoninus Augustus Pius, Father of his Country, the Second Legion, the August (dedicates this stone after having) made four thousand six hundred and fifty-two paces (of the wall).

The panel to the right represents a mounted Roman soldier galloping over a group of two slain and two living Caledonians naked, but armed with spear, sword, dagger, and square-shaped shield. The other panel represents the sacrifice of the *Suovetaurilia*—Henry Cadell, 1869.

28. Portion of Hypocaust of Roman Villa, found in 1783, near Inveresk.

29, 30. Roman Milestones, viz.—(**29**) figured in Gordon's *It. Sept.*, pl. xii. fig. 3, and by him stated to have been presented to the College of Edinburgh by Sir R. Sibbald ; (**30**) smaller milestone, locality unknown—Deposited by the late T. C. Archer.

31. Sculptured Stone in shape of Pine Cone, 20 in. high, from Midfield Mains, Inveresk—William Stevenson, 1879.

ALTARS AND INSCRIBED STONES, &c.

[From other Countries.]

Nos. 6, 7, on Second Floor, others on Ground Floor.

FW 1-5. Altars and Fragments of Sculpture, from Housesteads, Northumberland, viz.—(**1**) small altar, inscribed DIBVS . VITIRIBVS . DECCIVS V . S . L . M ; (**2, 3**) small altars ; (**4**) bas-relief of Roman soldier, with spear, shield, &c. ; (**5**) bas-relief of lower portion of female figure—Sir George Clerk, 1857.

6. Slab of Marble, 9 in. square in frame, bearing the inscription D . M . C . ACILIOBASSO . MEDIC . DVPLIC . COLLEGAE EIVS . (locality unknown)—Sir J. Y. Simpson, 1870.

7. Marble Slab, 11 × 9 in., inscribed FAVSTILLA . FLAVI . CLEMENTIS . SER . PIA . VIX . AN . XX . H . S . E . HERMEROS . CAESARIS . N . SER . TABELLAR . CONIVG . PIAE . F . (locality unknown)—David Laing, 1880.

8. Cast in Type-metal of Greek Inscription, from Brough-under-Stainmore, Westmoreland—R. S. Ferguson, 1880.

COLLECTIONS FROM BROCHS.

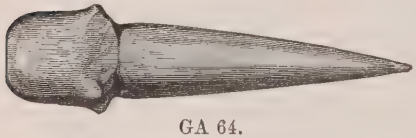
In Table and Window Cases in Wing, East End of First Floor.

MISCELLANEOUS.

[The great dry-built circular towers called Brochs, which are peculiar to Scotland, are usually about 30 feet interior diameter, with a thickness of wall of about 15 feet, rising to about 50 feet in height. A model of one of the most perfect, on the Isle of Mousa, Shetland, which is placed at the end of the room, and the ground-plans and elevations suspended on the walls, will show the details of their structure. They are post-Roman in date, and the objects found in them, with few exceptions, are Celtic in character. These exceptions are chiefly of Roman or Provincial Roman origin, such as vessels of Samian ware, glass, &c.]

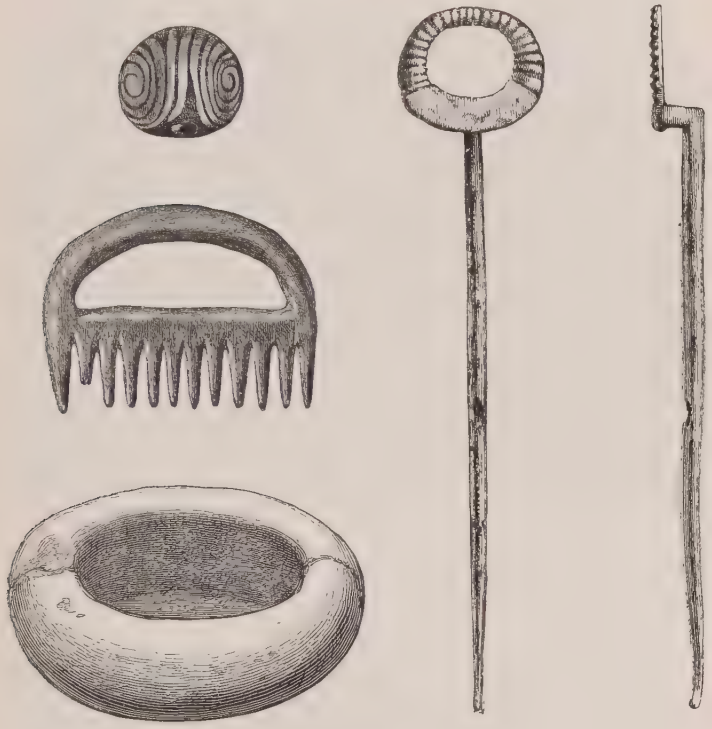
GA 1-382. Viz.—(**1-5**) from Westray, Orkney, viz. —(**1**) portion of leg-bone of

GA animal, partially cut through at intervals of half an inch ; (**2–4**) artificially pointed bones ; (**5**) bone awl or pin—G. Petrie ; (**6, 7**) from refuse heap of broch at St Nicholas' Church, Papa Westray, viz.—(**6**) implement of bone, imperfect ; (**7**) oval plate of bone, with two perforations at one end ; (**8**) pointed implement of bone, polished, $4\frac{1}{2}$ in. long, from Wasshow, Tressness ; (**9–55**) from various brochs in Orkney, viz.—(**9–17**) tines of deer-horns ; (**18–39**) pins, bodkins, and other implements of bone, from $1\frac{3}{4}$ to $4\frac{1}{2}$ in. long ; (**40, 41**) long-handled combs of bone, viz.—(**40**) $5\frac{5}{8}$ in. long, handle ornamented with rude lines ; (**41**) imperfect, $4\frac{1}{2}$ in. long ; (**42**) double-edged bone comb, $3\frac{1}{4} \times 1\frac{1}{2}$ in., rib attached with brass rivets, and ornamented with concentric circles at each corner ; (**43**) fragment of double-edged bone comb, rib ornamented with circles and dots ; (**44**) portion of single-edged bone comb ; (**45–47**) pointed implements of deer-horn and bone, one perforated near the point ; (**48–55**) implements and handles of deer-horn and bone, one with rivet ; (**56**) long-handled bone comb, ornamented with incised lines, from Burgar, Evie, Orkney—Mr Peterkin, 1827 ; (**57**) long-handled bone comb, with two lines crossing each other at the dental end—locality unknown ; (**58–61**) from How of Hoxay, South Ronaldsay, viz.—(**58**) stone pounder, $4\frac{1}{2}$ in. long, worn at both ends ; (**59**) ball of serpentine, $2\frac{1}{4}$ in. dia. ; (**60**) tooth of sperm whale, imperfect ; (**61**) boar's tusk—G. Petrie ; (**62**) long-handled bone comb, found in Sanday in 1829—Colonel Balfour, 1863 ; (**63**) bone cup, made from vertebra of whale, from Shapinsay—Colonel Balfour, 1862 ; (**64**) bone pin of curious form, from Sanday—Professor T. S. Traill, 1870 ; (**65**) implement of bone, $3\frac{3}{4} \times 1\frac{1}{8}$ in., with four bone pins through it, from Borrowston, Shapinsay, 1868 ; (**66**) long-handled bone comb, from Thrumster, Caithness—George Innes, 1783 ; (**67–69**) shed antlers of red deer (*Cervus elaphus*), one partly sawn round burr, the other partly cut through, and horn core of sheep, from Thrumster—John Bremner, 1870 ; (**70–72**) from Caithness, viz.—(**70–71**) pounders of stone, 5 and 7 in. long ; (**72**) fragments of deer-horn, from churchyard of Canisbay—Rev. James Macpherson, 1871 ; (**73–81**) from Old Stirkoke, Caithness, viz.—(**73–75**) water-worn pebbles, marked by use as pounders, from 4 to 6 in. long ; (**76**) whetstone of sandstone, $3\frac{1}{8}$ in. long ; (**77**) lamp of red sandstone, with two hollows picked in its surface, one $2\frac{1}{2}$ in., the other 1 in. dia. ; (**78, 79**) rude stone whorls, $1\frac{1}{2}$ in. dia. ; (**80**) bodkin of bone, $7\frac{1}{2}$ in. long ; (**81**) fragment of bronze—Joseph Anderson, 1871 ; (**82–92**) from Bowermadden, Caithness, viz.—(**82–84**) balls of sandstone, about $3\frac{1}{2}$ in. dia. ; (**85**) oval cup of red sandstone, 4×3 in. ; (**86**) disc of red sandstone, 8 in. dia., 2 in. thick, flattened on one side, and pierced with hole, $1\frac{1}{2}$ in. dia. ; (**87, 88**) stone whorls, $1\frac{3}{4}$ and $1\frac{1}{2}$ in. dia. ; (**89**) single-edged bone comb, with open semicircular handle ; (**90**) portion of deer-horn ; (**91**) bronze pin, 3 in. long, with open head covered with ribbed ornamentation ; (**92**) bead of vitreous paste, with yellow enamel spirals—*ibid.*, 1871 ; (**93–104**) from Brounaben, Caithness, viz.—(**93–98**) oblong and circular pounders of stone ; (**99–103**) flat discs of slaty stone, roughly chipped, from 3 to $4\frac{1}{2}$ in. dia. ; (**104**) rude stone mortar, with hollow, 3 in. dia.—Joseph Anderson, for Rhind Excavation Committee ; (**105–109**) from Carn Liath, Golspie, viz.—(**105–108**) fragments of shale rings and discs ; (**109**) plate of zinc bronze, $11\frac{1}{4} \times 7\frac{1}{2}$ in., covered with hammer-marks (one of pair)—His Grace the Duke of Sutherland, 1873 ; (**110, 111**) from mound near Burrian, North Ronaldsay, viz.—(**110**) end portion of double-edged comb of bone, with bronze rivets ;



GA 64.

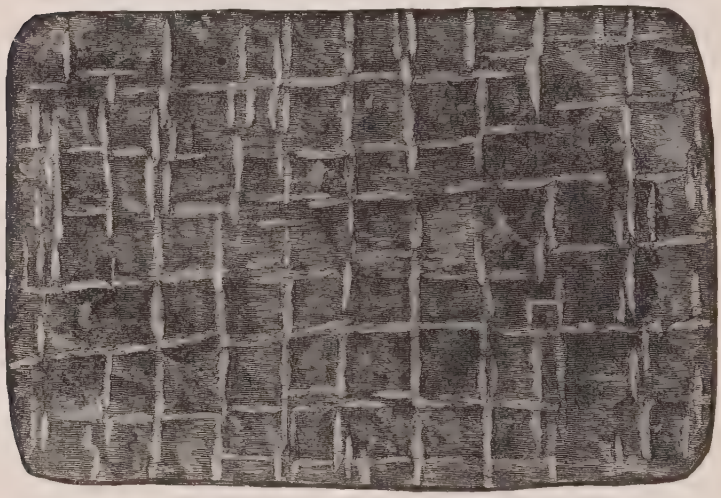
GA (111) portion of similar comb, pierced with two holes—Dr William Traill, 1872; (112–119) from Edin's Hall, Berwickshire, viz.—(112) stone implement, 7½ in. long, smoothed by use; (113) oblong implement of stone, 6 in. long; (114) stone whorl, 1⅜ in. dia.; (115) portion of jet ring; (116) ring of vitreous paste; (117) amber bead; (118) octagonal



GA 85, 89, 91, 92.

bronze brooch, 2 in. dia.; (119) small bronze boss—John Turnbull, 1871, for the Excavation Committee; (120–129) from Saverough, Birsay, Orkney, viz.—(120) double-edged comb of bone, 3 × 2 in., ornamented with dots and circles, imperfect; (121) portion of round-backed comb, of bone; (122) implement made from leg-bone of ox, pierced transversely, and cut obliquely at the end; (123) handle of red deer-horn, 6¼ in. long with rivet-holes; (124) circular hollow implement of polished bone, broken; (125–127) pins of polished bone and horn, one 3⅜ in. long, ornamented with lozenge-shaped pattern at head; (128) small oval cup of soap-stone, 1½ in. dia.; (129) tang and portion of blade of iron knife —James Farrar, 1863; (130, 131) fragments of pine and alder wood, from Levenwick, Shetland—G. Goudie, 1872; (132–136) fragments of coarse pottery, from Monkerhouse, Stromness—G. Petrie; (137, 138) roundels of claystone, 3 in. dia., one (137) ornamented with circular fret-like pattern, the other with rectangles, crossed by oblique lines,

GA from Scatness, Shetland—John Bruce, 1882; (**139–161**) from Orkney, viz.—(**139–146**) implements of bone roughly pointed; (**147**) flat piece of bone, 5 in. long, pierced with two holes; (**148**) bone handle; (**149–153**) pieces of bone, cut and perforated; (**154–160**) beads of stone and clay ball; (**161**) piece of rock crystal—George Petrie, 1871;



GA 109.

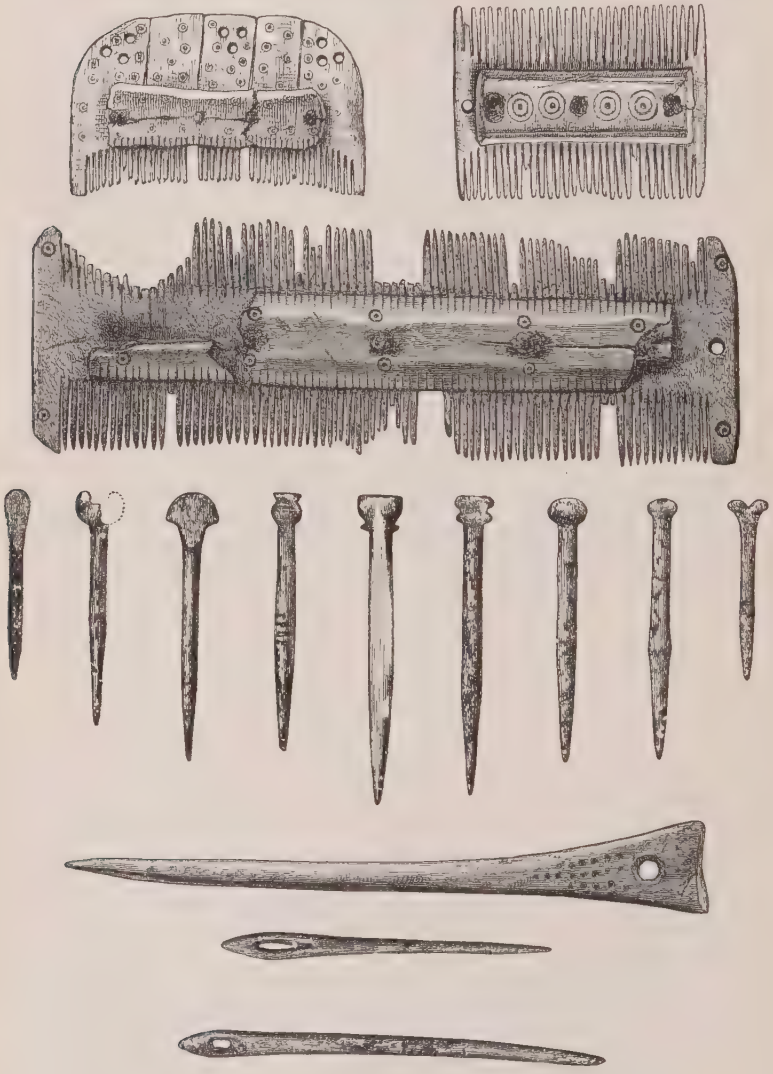
(**162–228**) bones and jaws of animals and fragments of deer-horn (*Cervus elaphus*), from brochs in Orkney—George Petrie; (**229**) model of Broch of Mousa, Shetland, on scale of about $\frac{1}{15}$th size of original—Purchased 1864; (**230–291**) collection of fragments of pottery, &c., from Dingishow, Deerness, Orkney, viz.—(**230**) tine of deer-horn; (**231**) metatarsal bone of deer; (**232–291**) pottery; (**292, 293**) large awls of bone, from Burray, Orkney—Purchased 1887; (**294–303**) from broch at Cairston, Bridge of Waith, Stromness, viz.—(**294, 295**) whorls of sandstone, $1\frac{3}{16}$ and $1\frac{7}{16}$ in. dia.; (**296**) circular disc of sandstone, $1\frac{1}{8}$ in. dia., imperforate; (**297**) spout of vessel of reddish ware; (**298**) portion of dish of same material; (**299**) handle of bone, $3\frac{7}{8} \times 1\frac{1}{4}$ in., perforated transversely by an opening, square at one end and circular at the other; (**300**) oblong, water-worn pebble of sandstone, probably a whetstone; (**301**) tusk of boar; (**302**) implement of bone, $4\frac{3}{8}$ in. long, pointed at one end; (**303**) portion of vessel of steatitic stone—Rev. J. H. Pollexfen, 1889; (**304–329**) collection from the Broch of Clumlie, Shetland, viz.—(**304–308**) whetstones of micaceous stone, much worn by use, from 3 to $5\frac{3}{8}$ in. long; (**309, 310**) whorls of steatite, $1\frac{1}{16}$ in. dia., of schist, $1\frac{1}{4}$ in. dia.; (**311**) irregular circular disc of mica-schist, $3\frac{3}{8} \times 3$ in. dia., with perforation through centre from one side; (**312**) irregularly circular disc of gritty sandstone, $2\frac{1}{4}$ in. dia.; (**313**) disc of micaceous sandstone, $1\frac{3}{4}$ in. dia.; (**314**) disc of micaceous sandstone, $3\frac{1}{8}$ in. dia., with perforation through the centre picked from each side; (**315**) portion of large thick vessel of steatite; (**316**) circular disc of sandstone, $6\frac{1}{2}$ in. dia.; (**317**) oblong, water-worn pebble of gritty sandstone, abraded at both ends by use; (**318**) oval,

GA oblong pebble of quartzite, slightly abraded at both ends by use, and with oblique groove on one side; (**319**, **320**) oblong pebbles of gritty sandstone, showing traces of use; (**321**) disc of micaceous stone, 6½ in. dia., with perforation through the centre picked from each side; (**322**) thick disc of gritty sandstone, 2½ in. dia.; (**323**) half of water-worn pebble of sandstone, split longitudinally, and abraded at each end by use; (**324**) handle end of large stone club; (**325–328**) grain-rubbers of sandstone, 15½ × 10, 16½ × 9, 15¾ × 8½, and 17¼ × 9½ in.; (**329**) large hollowed under rubbing-stone, imperfect at one end—Gilbert Goudie, for the Rhind Excavation Fund, 1890; (**330–363**) from Broch of Ousdale, Caithness, viz.—(**330**) upper stone of quern of mica-schist, triangular-shaped, 15 in. greatest dia.; (**331**) disc of mica-schist, 8½ in. dia., with perforation 2 in. dia. through centre; (**332**) half of another perforated disc; (**333–343**) hammer-stones of quartzite, &c., abraded at one or both ends; (**344**, **345**) flattish, circular pebbles of quartzite, one grooved on one side, the other on both; (**346**, **347**) pebbles of decomposed stone, showing marks of use; (**348**) pebble of quartzite, showing marks of burning, &c.; (**349**) fragment of implement of mica-schist; (**350–356**) whorls of steatite, sandstone, and claystone, one ornamented with circle of dots on each face; (**357**) portion of small stone implement resembling a half whorl; (**358**) portion of jet armlet; (**359**) portions of wooden dish; (**360**) portion of small cup or jar of clay; (**361**) fragments of pottery; (**362**) pieces of charcoal and portion of vitrified stone—James Mackay, 1892; (**363–381**) from Broch of Torwoodlee, Selkirkshire, viz.—(**363**) portion of glass armlet, with yellow enamel; (**364**) button-like object of bronze, with portions of red enamel; (**365**) bronze harness-mounting of "late-Celtic" type; (**366**) brass coin of Vespasian; (**367–371**) portions of handles, necks, rims, &c., of vessels of bluish-green glass; (**372**) portions of hollow rims of brown glass vessels; (**373**) portions of Samian ware; (**374**) portions of vessels of reddish and black ware; (**375**) portions of large vessels of reddish and yellow pottery; (**376**) disc of reddish clay, 2¾ in. dia., by 1⅛ in. thick; (**377**, **378**) whetstones; (**379–381**) portions of iron implements—Captain J. T. Pringle, R.N., 1892; (**382**) portions of large vessels of yellow pottery, from Broch of Bow, Mid-Lothian—James Curle, 1892.

BROCH OF BURRIAN, NORTH RONALDSAY.

GB 1–320. Viz.—(**1**) slab of clayslate, 2 feet 4 in. × 14½ in., bearing an incised cross of Celtic form, and an inscription in Ogham characters—part of the surface has scaled off and obliterated a figure resembling a fish; (**2**) handle of club-like implement of roughly-chipped sandstone, 7½ × 2¾ in.; (**3–6**) oblong smoothed and water-worn pebbles abraded by use at both ends, from 5¾ to 6½ in. long; (**7**) oblong whetstone of fine-grained sandstone, 6 × 1¼ in.; (**8**) flattish boat-shaped piece of steatite, 5 × 1½ in., tapering to both ends, partially perforated; (**9**) oblong pebble of brownish sandstone, incised on both sides, with crossed triangles; (**10**) flattish circular pebble of quartz, 3 in. dia.; (**11**) similar pebble, 3½ × 2½ in.; (**12**) flat circular piece of slate, 4¼ in. dia.; (**13**) ball of sandstone, 2¼ in. dia., with socket-hole; (**14–19**) pieces of black vesicular lava, roughly conical, pierced with small holes, and from 1¼ to 3 in. long; (**20–36**) whorls of bone from 1 to 1⅝ in. dia., each made from the femur of an animal; (**37**) whorl of chalk; (**38–60**) whorls of stone, from ¾ to 1⅞ in. dia.; (**61–65**) fragments of fossil encrinites; (**66**) fragments of flints; (**67**) smooth rounded pebbles; (**68**) round-backed bone comb, 3 × 2 in., ornamented with dots and circles; (**69**) similar comb, 3 × 1½ in., plain

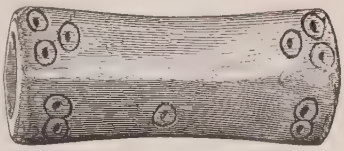
GB and imperfect; (**70, 71**) double-edged bone comb, ornamented with dots and circles, $2\frac{3}{4} \times 2$ and $5\frac{1}{2} \times 2$ in., the latter imperfect; (**72–84**) portions



Types of Bone Implements from Broch of Burrian.

of similar double-edged combs; (**85–100**) long-handled combs of bone, from $3\frac{1}{8} \times 2$ to $5\frac{1}{4} \times 2\frac{1}{4}$ in., two ornamented with incised cross-lines;

GB (**101–111**) bone pins of various shapes and sizes, pegs and slips of bone, and four needles; (**212**) bone implement, $5\frac{1}{2}$ in. long, made from the radius or wing-bone of bird; (**213–215**) handle-like implements of bone, from $2\frac{1}{2}$ to $3\frac{3}{8}$ in. long, broken, the ends smoothed; (**216–219**) bone handles of implements, from $2\frac{1}{2}$ to $4\frac{1}{2}$ in. long; (**220**) point end of tine of deer-horn, hollowed, pierced transversely; (**221–223**) awls of bone; (**224**) bone pin, $2\frac{3}{4}$ in. long, with perforated head; (**225**) tool of bone, 4 in. long, with two grooves at point; (**226**) phalangial bone of small ox, $2\frac{3}{8}$ in. long, hollowed at one end; (**227, 228**) phalanges, viz.—(**227**) with two of symbols of "Sculptured Stones" incised on it; (**228**) with incised markings showing no definite form; (**229–231**) oblong dice of bone, about $1\frac{3}{4}$ in. long, two ornamented with dots and circles; (**232–244**) stud-like pieces of bone, from $\frac{3}{4}$ to $1\frac{1}{2}$ in. dia., one with iron shank in it; (**245**) flat implement of bone, $4\frac{1}{2} \times 1\frac{1}{2}$ in., constricted in middle; (**246–250**) flat slips of bone, sawn smooth on one side, convex on the other, and perforated, two with pegs remaining in them; (**251–252**) thin slips of bone smooth on both sides, $3\frac{3}{8}$ and $5\frac{1}{4}$ in. long; (**253**) implement of bone, 5 in. long; (**254–257**) implements made from bones of whale, viz.—(**254**) 10×6 in., with two holes; (**255**) shaped like blade of spade, $10 \times 6\frac{7}{8}$ in.; (**256**) triangular-shaped piece of spongy bone, 8×5 in., with two holes; (**257**) 8×5 in., with two holes; (**258–269**) rubbing bones, from $2\frac{3}{4}$ to 8 in. long; (**270–273**) implements made from bones of whale, viz.—(**270**) $11\frac{3}{4} \times 3$ in., roughly pointed; (**271**) $15\frac{1}{2} \times 1\frac{1}{2}$ in., tapering to point; (**272**) $12\frac{1}{2} \times 1\frac{5}{8}$ in., smooth on one side, roughly cut on the other; (**273**) $7\frac{1}{4} \times 2$ in., with groove running round its length; (**274, 275**) pieces of bone, cut across transversely, $4\frac{3}{8}$ and $2\frac{7}{8}$ in. long; (**276**) flattish, circular piece of bone, $3\frac{1}{2}$ in. dia.; (**277**) oblong implement of bone, $3\frac{1}{4} \times 2$ in., pierced by square hole in centre, and smaller one on either side; (**278**) similar implement, $2\frac{1}{2} \times 1\frac{3}{8}$ in., pierced horizontally; (**279–280**) cancellated structure of large bone of whale; (**281, 282**) left side horns of oxen; (**283, 284**) parts of frontal bones of sheep or goat; (**285**) fragment of deer-horn; (**286**) tine of deer; (**287, 288**) fragments of bones of whale; (**289**) left half of human jaw-bone; (**290**) jaw-bone of boar; (**291, 292**) jaw-bones of seals; (**293–295**) jaw-bones of swine; (**296**) ear-bone of large animal; (**297**) skull of solan goose; (**298–300**) portions of thigh bones of large animal; (**301**) tusks and teeth of various animals; (**302–304**) bronze pins; (**305**) fragments of bronze; (**306**) small square-sided bell, $2\frac{1}{4}$ in. high, coated with bronze; (**307, 308**) arrow-head of iron, knife-blades, ferrules, &c., of iron; (**309–314**) fragments of pottery; (**315**) vessel of steatite, $16 \times 12 \times 5\frac{1}{2}$ in., imperfect; (**316–318**) fragments of burnt wood, straw, &c.; (**319**) portion of glass vessel; (**320**) blue glass bead, $\frac{1}{2}$ in. dia.—Dr William Traill, 1872.



GB 230.

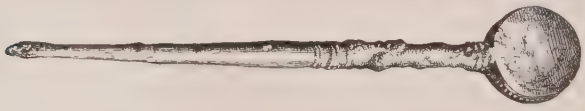
BROCH OF BURRAY, ORKNEY.

GC 1–53. Viz.—(**1**) cup, $4\frac{1}{2}$ in. dia., made from vertebra of whale; (**2–5**) long-handled bone combs, from $4\frac{1}{2}$ to 6 in. long; (**6**) fragment of double-edged comb of bone with iron rivet; (**7–17**) bone pins, from $1\frac{1}{4}$ to $4\frac{7}{8}$ in. long, some with rounded heads; (**18**) implement of bone, flattened at both ends, $5\frac{1}{4}$ in. long; (**19, 20**) implements made from bones of fowls, $5\frac{1}{2}$ and $4\frac{1}{2}$ in. long; (**21**) bone scoop, $5 \times 1\frac{7}{8}$ in.; (**22–26**) hemispherical whorls; (**27–**

GC **28**) whorls of stone, 1¼ and 1⅝ in. dia.; (**29**) whorl of chalk, 1¼ in. dia.; (**30-32**) button-like objects of bone, two with iron pins in them; (**33-35**) fragments of deer-horns, artificially cut; (**36**) portion of vertebra of whale

GC 1.

cut into the shape of a wheel; (**37, 38**) fragments of handles of bone; (**39-42**) portions of implements of bone, one pierced with bone rivets; (**43**) iron knife-blade, 5 in. long; (**44**) iron chisel, 4⅝ in. long; (**45**) bronze



GC 45.

pin, with flat, circular head, 3 in. long; (**46**) flat, circular disk of mica, 2½ in. dia., imperfect; (**47**) circular stone, 3 × 2¾ in.; (**48**) fragment of sandstone, with hollow on one side; (**49**) fragment of mica perforated in centre; (**50**) circular pebble, 3¼ in. dia., abraded by use; (**51-53**) upper stones of querns of reddish sandstone, 17 and 16 in. dia., two broken at edges—James Farrar and George Petrie, 1865 and 1866.

BROCH OF OKSTROW, BIRSAY.

GD **1-54**. Viz.—(**1-8**) hammer-stones or pounders of sandstone, from 4 to 6 in. long, abraded by use; (**9, 10**) lamps of red sandstone, 5½ × 4 and 3½ × 2¾ in., each with two shallow cavities; (**11, 12**) lamps of red sandstone, one (**11**) 5¾ × 4 in., with short perforated handle, (**12**) 5¾ × 4¾ in.; (**13**) flat, perforated circular stone, 4¾ in. dia.; (**14, 15**) thin discs of slate, smoothed and roughly chipped round the edges, 2½ and 3¼ in. dia.; (**16-20**) whorls of bone and stone, from 1¼ to 1⅝ in. dia.; (**21**) bone pin, 3⅜ in. long, with flattened head; (**22**) bead-like object of polished bone; (**23, 24**) rings of bone, 1 and 2 in. dia.; (**25**) rubbing bone, 3½ × 2⅛ in.; (**26, 27**) long-handled bone combs, 4½ and 5¾ in. long, the teeth of both imperfect;

GD (**28–30**) handles of bone, all perforated; (**31–33**) implements of bone, sharp-pointed, $3\frac{1}{2}$, $4\frac{1}{4}$, and $5\frac{1}{2}$ in. long; (**34**) upper beak of fowl; (**35**) boar's tusk; (**36–41**) fragments of bones and deer-horns; (**42–50**)

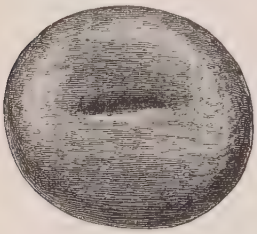
GB 51, 52, 54, 11, 12.

fragments of red lustrous ware, grey ware, &c.; (**51**) bronze pin, $4\frac{3}{4}$ in. long, with loop-head and ornamentation; (**52**) bronze penannular brooch, $1\frac{1}{2}$ in. dia.; (**53**) bronze ring, 1 in. dia.; (**54**) bronze handle, 3 in. long—Henry Leask, Birsay, 1875.

BROCH OF LINGROW, SCAPA.

GE 1–277. Viz.—(**1**) flat implement of slaty stone, $6\frac{1}{4}$ in. long, constricted on both sides near the top; (**2–6**) flattish, water-worn pebbles of quartz, from 2 to 3 in. dia., having oblique longitudinal hollows on their flat sides; (**7–9**) whorls of sandstone, from $1\frac{1}{4}$ to $2\frac{3}{4}$ in. dia.; (**10**) whorl of steatite, $1\frac{1}{4}$ in. dia.; (**11**) whorl of chalk, $1\frac{1}{2}$ in. dia.; (**12**) long-handled comb of bone, 4 in. long, imperfect; (**13–15**) bone awls or pointed implements, from $4\frac{3}{4}$ to $8\frac{1}{4}$ in. long; (**16**) bone implement, triangular in section, $7\frac{3}{8}$ in. long; (**17–21**) pointed implements of bone or horn; (**22**) piece of horn, $1\frac{3}{4}$ in. long, sawn across and polished, perforated; (**23**) circular piece of bone, $1\frac{1}{2}$ in. dia., with hole in centre set round with pegs; (**24**) bone stud;

GE (**25**, **26**) fragments of bronze; (**27**, **28**) charred grain; (**29–31**) implements of deer-horn sawn at both ends, one (**29**) with square piece of bone inserted in it, the other two hollowed; (**32**, **33**) wing-bones of large bird; (**34–36**) bones of various animals; (**37**, **38**) coprolites of dog; (**39**) portion of clay mould for a bronze pin, 3½ in. long; (**40**, **41**) bodkins of bone; (**42**) portion of rim and side of urn of reddish clay, 6½ in. dia. across mouth; (**43**) portion of rim of vessel with raised band around mouth, 6½ in. across mouth; (**44**) portion of small cup, about 2½ in. high, ornamented with circles and incised lines round rim; (**45**) portion of vessel of reddish clay, 4½ in. across mouth, and about 3½ in. high; (**46**) portion of side of vessel of reddish clay, 6¼ in. high; (**47–52**) portions of rims of vessels of clay, one rudely ornamented with incised lines; (**53–106**) fragments of rims and sides of vessels, variously ornamented; (**107–274**) fragments of rims, sides, and bottoms of clay vessels, all unornamented; (**275**) small portion of crucible; (**276**, **277**) small ball and small disc, both of reddish clay—George Petrie for Rhind Excavation Fund, and deposited by M. S. Graeme and James Cursiter.



GE 6.

BROCH OF HARRAY, ORKNEY.

GF 1–27. Viz.—(**1–6**) pounders of sandstone, abraded on edges by use, from 3½ to 5 in. long; (**7**) fragment of hematite; (**8–11**) flat, circular discs, viz.—(**8–9**) of slate, 10¾ and 5¾ in. dia.; (**10**) of stone, 4¼ in. dia.; (**11**) of stone, perforated, 3 in. dia.; (**12**) slab of stone, 8 × 5⅞ × 1⅝ in., with longitudinal indentations cut into it; (**13–16**) whorls of bone and stone, from 1½ to 2 in. dia.; (**17**) stud of bone, perforated; (**18–22**) pointed implements of bone, from 1¾ to 3¼ in. long; (**23**) boar's tusk; (**24–25**) fragments of deer-horn; (**26**) portion of bone of whale with two perforations; (**27**) bronze tip of spear-shaft, 3½ in. long—James Farrar, 1867.

GF 27.

BROCH OF DEERNESS, ORKNEY.

GG 1–33. Viz.—(**1**, **2**) pounders of stone, 5 and 3¼ in. long; (**3**, **4**) stone balls; (**5**) perforated piece of sandstone, 5¼ × 4½ in.; (**6**) flat portion of whalebone, 13½ × 3½ in., perforated; (**7**, **8**) fragments of deer-horn, artificially cut; (**9**) double-edged comb of bone, 3½ in. long, with iron rivets, imperfect; (**10**) boar's tusk; (**11**) whorl of red clay, 1½ in. dia.; (**12 33**) fragments of red, black, and grey pottery—James Farrar, 1865.

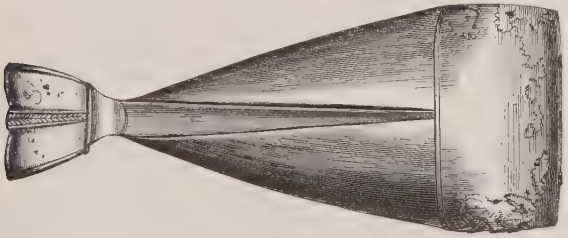
BROCH OF LAMANESS, SANDAY.

GH 1–30. Viz.—(**1–5**) whorls of stone, from 1¼ to 2 in. dia., and one of lignite, 1¼ in. dia.; (**6**) stud of polished bone; (**7**) double-edged bone comb, 2¾ in. long, riveted and ornamented with concentric circles; (**8**, **9**) bone

GH pins, 5 and 4½ in. long; (**10**) implement of deer-horn, 5¼ in. long, pierced longitudinally and transversely; (**11–14**) handles of bone, from 3 to 4 in. long, two perforated; (**15–21**) boar's tusk and teeth of other animals; (**22**) bronze pin, 2¼ in. long, with flat head, and band of chevrony ornament round middle; (**23**) bronze bodkin, 2 in. long; (**24, 25**) upper quern stones, 17 and 18 in. dia., with sunk spaces on one side; (**26**) fragment of lower stone of quern; (**27**) fragment of upper quern stone; (**28**) oblong vessel of red sandstone, with rough oval cavity, 8½ × 4½ × 2½ in.; (**29**) boulder of sandstone with circular depression, 4 in. dia., and groove 1 in. wide, running to edge of stone; (**30**) oblong, cylindrical stone, tapering, 9 in. long, with shallow depression in one end—Colonel D. Balfour, 1878.

BROCH OF KETTLEBURN, CAITHNESS.

GI 1–83. Viz.—(**1–3**) stone pounders, 7 × 3½, 7½ × 2⅛, and 3⅛ × 1½ in.; (**4–6**) stone balls, worn by use, from 2 to 2⅝ in. dia.; (**7–11**) water-worn pebbles, from 2¼ to 1¼ in. dia.; (**12, 13**) whetstones, viz.—(**12**) of quartzose sandstone, 4½ in. long; (**13**) of claystone, 6 in. long; (**14**) part of stone cup with handle; (**15**) stone lamp, with two hollows; (**16–23**) discs of slate and stone, roughly chipped on edges, from 3 to 8 in. dia.; (**24–29**) stone whorls, from 1½ to 2 in. dia.; (**30**) circular perforated pebble of quartz, 1 in. dia.; (**31**) thin circular piece of stone, ½ in. dia.; (**32–34**) circular balls of polished bone, 1½ and 1 in. dia., one with remains of iron loop; (**35, 36**) long-handled combs of bone, 4 and 6 in. long; (**37**) small single-edged bone comb, 1½ in. long, ornamented with incised lines; (**38–40**) implements of bone and horn, 3½ and 2 in. long, resembling handles; (**41–44**) pointed implements of bone, from 2½ to 7 in. long; (**45–60**) teeth and portions of jaw-bones of (**45–47**) pig; (**48–50**) horse; (**51, 52**) dog; (**53–55**) ox; (**56, 57**) goat; (**58**) deer; (**59**) human teeth; (**60**) jaw-bone of rat; (**61**) fish bones; (**62**) radius of seal; (**63–65**) fragments; (**63, 64**) of tibia and horn of ox, and (**65**) of deer-horn; (**66–74**) fragments of pottery; (**75**) bronze tweezers, 4½ × 1¾



GI 75.

in.; (**76**) fragment of bronze implement; (**77, 78**) fragments of iron implements; (**79, 80**) lower stones of querns, one oblong, 24 × 15 in., the other, 15 in. dia.; (**81**) boulder of sandstone, 18 × 5 × 10 in., with conical cavity in centre; (**82, 83**) circular discs, viz.—(**82**) of sandstone, 8 in. dia.; (**83**) of slate, 9 in. dia.—Alexander Henry Rhind, 1854 and 1856.

FROM A BROCH, &c., AT KEISS.

GJ 1-202. Viz.—(**1-116**) from the broch near the Harbour, viz.—(**1**) spear-head (?) of sandstone, $8\frac{3}{4} \times 2\frac{1}{4}$ in.; (**2**) scraper of sandstone, ground on one side to curved edge, $5\frac{3}{4} \times 3$ in.; (**3**) knife (?) of sandstone, $3\frac{1}{2}$ in. long; (**4**) whetstone or polisher of sandstone, 3 in. long; (**5**) handled implement of bone, 6 in. long, flattened at point; (**6-9**) pointed implements of polished bone, from $3\frac{3}{4}$ to $5\frac{3}{4}$ in. long, one (**7**) pointed at both ends; (**10, 11**) flat implement of bone, smoothed on one side; (**12**) triangular piece of bone, $1\frac{3}{4}$ in. long; (**13-15**) portions of handles of bone, from 2 to 4 in. long; (**16-21**) bone sockets, from 1 to $2\frac{1}{2}$ in. long; (**22-31**) bone pins, polished at points, from 2 to $6\frac{1}{4}$ in. long; (**32-35**) whorls of bone, $1\frac{5}{8}$ to $1\frac{1}{4}$ in. dia.; (**36**) implement formed partly of bronze and partly of iron, 5 in. long; (**37**) piece of iron; (**38-41**) fragments of reindeer-horn; (**42-46**) fragments of horns of red deer; (**47-50**) horn, fragments of jaw-bone, and rib-bone of ox artificially cut; (**51-64**) fragments of jaw-bones and teeth of horse; (**65-68**) horns of sheep; (**69-72**) jaw-bones of goat; (**73-82**) teeth and jaw-bones of hog; (**83**) left jaw of rabbit; (**84**) child's jaw; (**85**) fragment of phalangial bone of whale; (**86-91**) bones of great auk; (**92**) bone of bird; (**93**) skull of solan goose; (**94-112**) bones of cormorant, solan goose, lesser auk, stag, &c.; (**113**) mass of limpet shells; (**114-116**) sea-shells; (**117-155**) from the Churchyard Mound, viz.—(**117, 118**) water-worn balls of stone, $2\frac{1}{2}$ and $1\frac{3}{4}$ in. dia.; (**119**) portion of human lower jaw with tooth; (**120-143**) bone pins and implements, from $2\frac{1}{2}$ to 5 in. long; (**144-155**) fragments of black and grey unglazed pottery; (**156-173**) from Stain, viz.—(**156-171**) rude stone implements; (**172**) fragment of lower jaw of dog; (**173**) limpet shells; (**174-191**) from Birkle Hill, viz.—(**174**) broken sinker of sandstone, $6 \times 4\frac{1}{2}$ in., with deep groove round the middle; (**175-180**) pounders of sandstone, from $2\frac{1}{2}$ to 8 in. long; (**181-184**) implements of stone and chalk; (**185**) portion of rim of stone vessel; (**186-188**) whorl of bone and two of stone, from $1\frac{1}{2}$ to 1 in. dia.; (**189**) bone pin, with flattened head, $2\frac{3}{4}$ in. long; (**190**) bone borer, $2\frac{1}{4}$ in. long; (**191**) nail and fragments of rusted iron; (**192-197**) from the Moorland Mound, viz.—(**192**) pounder of sandstone, 6 in. long, worn at both ends; (**193**) piece of polished porphyry; (**194-197**) fragments of wheel-made pottery, two with green glaze; (**198**) oblong irregularly-shaped stone, with deep cavity of triangular form, measuring about $12 \times 6 \times 3\frac{1}{2}$ in.; (**199-202**) water-worn slabs, viz.—(**199, 200**) of sandstone, with hollows on both sides; (**201**) of clay-slate, hollowed on both sides; (**202**) broken and hollowed on one side—Samuel Laing, and Joseph Anderson, 1865.

BROCH OF YARHOUSE, CAITHNESS.

GK 1-106. Viz.—(**1-9**) pounders of sandstone, from 3 to 6 in. long; (**10**) stone ball, $3\frac{3}{4}$ in. dia., with three smoothed faces; (**11-14**) whetstones, from $2\frac{3}{4}$ to $4\frac{1}{2}$ in. long; (**15**) slab of sandstone, with cup-shaped hollow, 2 in. dia., on either side; (**16**) implement of slate, 6 in. long, with hollow on one edge; (**17-25**) circular discs of slaty sandstone, roughly chipped round the edges, from $2\frac{1}{2}$ to 6 in. dia.; (**26**) circular disc of stone, $1\frac{1}{4}$ in. dia.; (**27**) lump of soft stone; (**28**) conical core of flint, $\frac{1}{2}$ in. long; (**29**) fragment of vessel of steatite; (**30-36**) whorls of stone, about $1\frac{1}{2}$ in. dia.; (**37**) rounded water-worn pebble of quartz, $1\frac{1}{4}$ in. dia., perforated; (**38-40**) pointed implements of bone, from $2\frac{1}{4}$ to $6\frac{3}{4}$ in. long; (**41, 42**) cylindrical pieces of bone, $1\frac{3}{8}$ and 2 in. long, pierced longitudinally;

GK (**43**, **44**) flat implements of bone and horn ; (**45–57**) teeth and portions of jaws of ox and sheep ; (**58–60**) three fragments of reindeer horns ; (**61–67**) fragments of horns of red deer ; (**68**) frontal bone and horn of ox ; (**69**) portion of human skull ; (**70–84**) bones of ox, sheep, &c. ; (**85–99**) fragments of red, black, and grey ware ; (**100**) flat circular bronze brooch, $1\frac{1}{4}$ in. dia., inscribed ISVS NAZAR ; (**101**) bronze armlet,

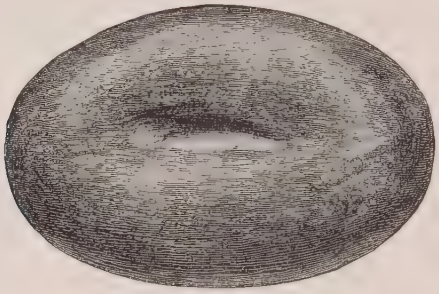
GK 101.

$2\frac{1}{2}$ in. dia. ; (**102**) bronze ring ; (**103**) fragments of iron implements ; (**104**, **105**) blocks of stone, one (**104**) with oblong hollow, 11 in. long, the other with circular hollow, 7 in. dia. ; (**106**) circular disc of slaty stone, $10\frac{1}{4}$ in. dia.—Joseph Anderson, 1871, for the Rhind Excavation Committee.

BROCH OF CINN TROLLA, KINTRADWELL.

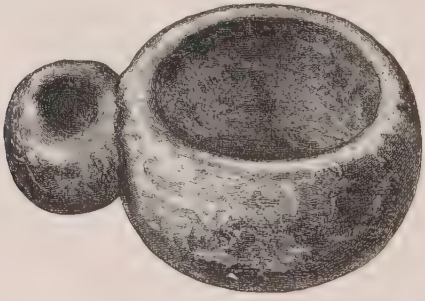
GL 1–101. Viz.—(**1–5**) pounders of stone, worn at both ends, from 4 to $6\frac{1}{2}$ in. long ; (**6**) flattish, ovoid stone, $3\frac{1}{2} \times 2\frac{3}{4}$ in., grooved longitudinally on both sides ; (**7**) black polished stone, $2\frac{7}{8}$ in. dia. ; (**8**) stone whorl, 2 in. dia. ; (**9**) cup of steatite, 4 in. dia., with rounded handle ; (**10**) flint scraper ; (**11**) chert flake ; (**12–14**) fragments of rings of shale ; (**15**) iron dagger-blade, 10 in. long ; (**16**) socketed spear-head of iron, 10 in. long ; (**17**) socketed chisel-like tool of iron ; (**18**) part of iron blade, 4 in. long ; (**19**) fragment of iron ; (**20**) ring of lead ; (**21**) disc of bone, 3 in. dia., smoothed on one side and pierced with hole in centre ; (**22–27**) implements of bone or horn ; **28**) bone blade, $1\frac{3}{4}$ in. long, smoothed ; (**29**) smoothed and pointed implement of bone, $3\frac{1}{4}$ in. long ; (**30**) jaw-bones, &c., of fish ; (**31–42**) teeth and jaw-bones of horse, ox, dog, fox, pig, goat, and sheep ; (**43–65**) fragments of horns of (**43–55**) reindeer ; (**56–61**) red deer ; (**62**) roebuck ; (**63–65**) sheep and goat ; (**66**, **67**) skulls of ox and dog ; (**68**) hoof of deer ; (**69–73**) beak and bones of birds ; (**74–76**)

GL fragments of crucibles for melting bronze ; (**77–85**) fragments of pottery ; (**86**) pieces of burnt clay ; (**87, 88**) lower quern stones of sandstone, 26 and 24 in. dia., found near Brora ; (**89, 90**) upper and lower stones



GL 6.

of quern of mica-schist, oblong, 15 × 12 in. ; (**91–93**) upper stones of querns of sandstones, 12 in. dia. ; (**94**) basin formed from vertebra of whale ; (**95–97**) mortars or knocking-stones, 21 × 15, 16 × 14½, and 20 × 17



GL 9.

in. ; (**98–101**) pestles, viz.—(**98**) 14½ in. long ; (**99**) 21 in. long ; (**100**) 11 in. long ; (**101**) 17 in. long—Rev. Dr J. M. Joass, 1871, for Rhind Excavation Committee.

BROCH OF TAPPOCK, TORWOOD, STIRLINGSHIRE.

GM 1–38. Viz.—(**1, 2**) circular hammer-stones, 4 in. dia., showing traces of burning ; (**3–5**) rough stone balls, 3 in. dia. ; (**6–9**) smooth water-worn pebbles, from 1 to 3¼ in. dia. ; (**10**) polished stone of flinty slate, 2¾ × 2¼ × 1 in. ; (**11**) oval-shaped stone, with picked hollows, 2 in. dia. on each side, the ends chipped and broken ; (**12, 13**) oval stones, 4 × 3 in., with cup-shaped depressions on upper surface ; (**14**) circular cup or lamp of yellowish clay, 3 in. dia., with projection at one side for handle ; (**15**)

GM stone ball, flattened above and below, $1\frac{1}{2}$ in. dia., pierced with hole through centre, and with groove round sides; (**16**) small disc of whitish stone, $\frac{7}{8}$ in. dia.; (**17, 18**) whorls of stone, $1\frac{5}{8}$ and $1\frac{7}{8}$ in. dia.; (**19**) flat pear-shaped piece of shale, with hole at narrow end, and one side covered with lines of Vandyked pattern; (**20–22**) two flint chips and piece of rock-crystal; (**23**) iron hammer, $13\frac{3}{4}$ in. long, including width of head; (**24**) iron axe-head, $5\frac{1}{2}$ in. long; (**25**) teeth of horse, ox, dog, pig, &c.; (**26**) fragment of urn of coarse clay; (**27–30**) fragments of coarse pottery; (**31, 32**) portions of charcoal and charred fir-stalks; (**33, 34**) upper stones of querns, one of granite, the other of red sandstone, 12 and 14 in. dia.; (**35**) lower stone of quern, oval-shaped, 20×16 in.; (**36–38**) irregular blocks of sandstone, one incised with two concentric circles surrounding projecting boss in centre, on the second is a circle and portions of two other concentric circles, surrounding a cup-shaped indentation—portions of two similar circles are on the third stone, the largest measuring about 6 in. dia.—Colonel Joseph Dundas, 1865.

LAWS HILL, MONIFIETH, FORFARSHIRE.

In Desk Case in Wing, East End of First Floor.

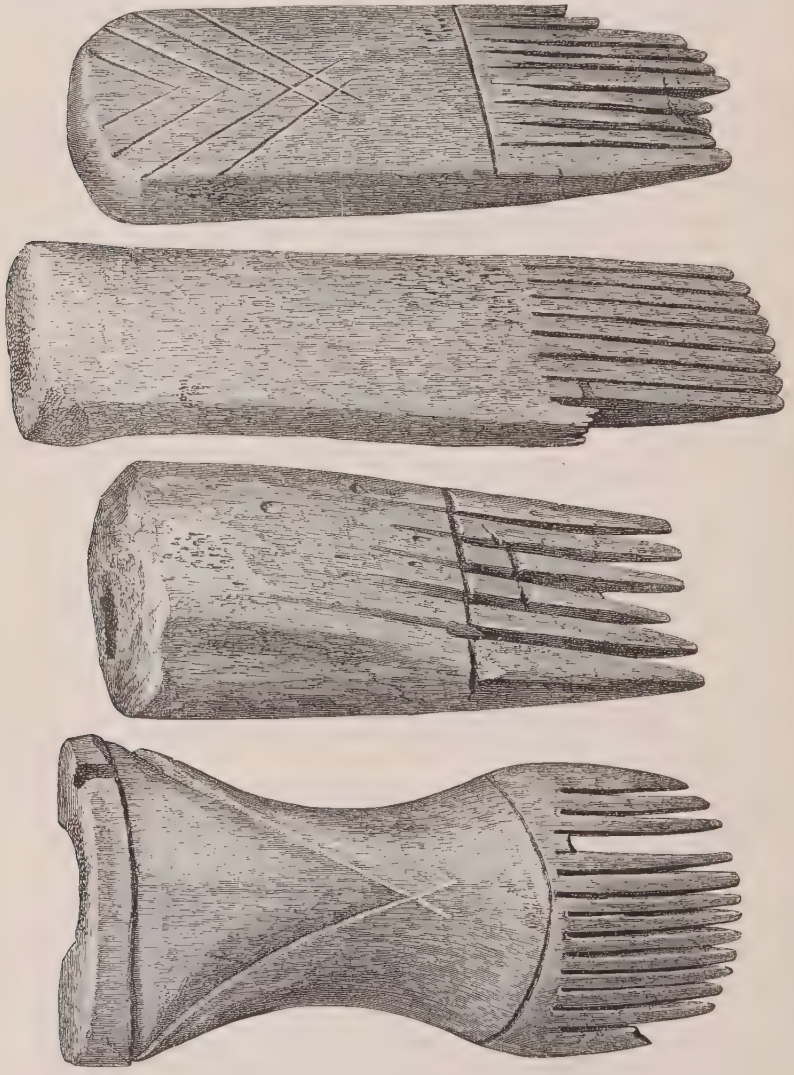
GN 1–50. Viz. (**1**) stone cup with picked hole, 2 in. dia.; (**1–5**) stone whorls, from $1\frac{3}{8}$ to $2\frac{1}{4}$ in. dia.; (**6**) disc of sandstone, $2\frac{1}{4}$ in. dia., partly perforated on each side; (**7–12**) circular discs of sandstone, from $1\frac{3}{8}$ to $3\frac{3}{8}$ in. dia.; (**13**) natural concretion, $2\frac{3}{4}$ in. dia.; (**14, 15**) fragments of flint and mica-schist; (**16–18**) masses showing vitrification; (**19, 21**) pieces of rock-crystal and hematite; (**22**) small cowrie; (**23**) bone implement, 4 in. long, curved to projection in centre; (**24**) double-edged comb of bone, $3\frac{3}{8}$ in. long, imperfect; (**25–29**) teeth and bones of horse, pig, and roe-buck; (**30**) piece of bronze wire bent into form of pin; (**31**) iron needle; (**32**) iron pin, $3\frac{1}{4}$ in. long, with circular head; (**33**) coil of bronze wire; (**34**) circular brooch of iron, $1\frac{1}{4}$ in. dia.; (**35**) copper coin, with edges partly notched; (**36**) armlet of thin bronze, $3\frac{1}{8}$ in. dia; (**37–47**) implements of iron, viz.—(**37–39**) axe or adze heads; (**40**) implement resembling head of hoe; (**41**) portion of sword; (**42–47**) portions of other implements; (**48, 49**) charred wheat and barley; (**50**) oval piece of sandstone—Bequeathed by James Neish, 1882.

HOWMAE, NORTH RONALDSAY.

In Table Case in Wing, East End of First Floor.

GO 1–239. Viz.—(**1–4**) long-handled combs of bone, viz.—(**1**) $5\frac{1}{8}$ in. long, wedge-shaped, two of the teeth imperfect, extremity of handle ornamented with chevron pattern; (**2**) $6\frac{1}{4}$ in. long, wedge-shaped, one tooth imperfect; (**3**) $4\frac{3}{4}$ in. long, thick wedge-shaped, apart; (**4**) $5\frac{1}{4}$ in. long, handle expanding at free end and ornamented with incised triangle and semicircle, two teeth imperfect; (**5**) portion of cup made from a tail vertebra of whale; (**6**) epiphysis of whale, $14\frac{1}{2} \times 11\frac{1}{2}$ in., pierced with four square holes; (**7, 8**) two epiphyses, both imperforate, one $10\frac{1}{4} \times 9\frac{1}{4}$ in., the other smaller and imperfect; (**9–34**) pins, bodkins, &c., of bone, from $1\frac{1}{16}$ in. to $5\frac{5}{8}$ in. long; (**35–46**) bodkins of bone, made from leg-bones of small animals; (**47**) metatarsal bone of sheep showing marks of cutting; (**48–54**) meta-

GO tarsal bones of sheep found lying together as if they had been tied in a bundle; (**55**) whorl made from piece of cetacean bone, partially perforated



GO 1–4.

from one side; (**56**) portion of leg-bone of animal, $2\frac{3}{8}$ in. long, perforated longitudinally; (**57**) curved bone, $6\frac{3}{4}$ in. long, perforated at one end;

GO (**58**) small joint-bone with natural perforation through centre of flat face; (**59–66**) flattish implements made from portions of large bones of whale, mostly imperfect, from $5\frac{1}{4}$ to $8\frac{1}{2}$ in. long, each pierced with oval-shaped hole in the centre; (**67–71**) implements made from portions of cetacean bone, showing traces of rubbing; (**72–79**) portions of implements made from cetacean bone, several of which show marks of having been cut with knives; (**80**) flattish, water-worn pebble of red sandstone, 6 in. dia., with perforation 1 in. dia. through centre; (**81**) flattish, water-worn pebble of white sandstone, $6\frac{1}{2}$ in. dia., with perforation 1 in. dia. through centre; (**82**) disc of slaty stone, $6\frac{3}{4}$ in. dia.; (**83**) pounder of compact sandstone, $6\frac{3}{4}$ in. long, abraded at both ends by use; (**84**) pounder of compact sandstone, 6 in. long, abraded at one end; (**85**) portion of mass of crushed bones from the refuse-heap, principally of fish; (**86**) shells of snail (*Helix nemoralis*), now extinct in North Ronaldsay; (**87–93**) fragments of pumice which have been used for smoothing bone pins; (**94**) implement of slatestone, $7\frac{1}{2} \times 3\frac{3}{4}$ in., showing traces of use round edges; (**95**) flattish implement of sandstone, $8\frac{1}{2} \times 4\frac{1}{2}$ in., abraded at each end and with constriction on each side at middle; (**96, 97**) fragments of rims and sides of vessels of reddish ware, unglazed; (**98–111**) hammer-stones or pounders of sandstone, &c., mostly abraded at each end by use; (**112**) oblong piece of granitic rock, $3 \times 2\frac{1}{4}$ in., roughly smoothed on each face; (**113**) saddle quern of sandstone, 14×9 in., with roughly-picked hollow, $3\frac{1}{4} \times 3$ in. and $\frac{5}{8}$ in. deep, on the underside; (**114**) irregularly oval-shaped block of sandstone, $15\frac{3}{4}$ in. long, with oval-shaped depression on one side, 9 in. long $\times$ $6\frac{1}{2}$ in. wide and $1\frac{3}{4}$ in. deep; (**115**) portion of large block of sandstone, with roughly-picked hollow on one side, $2\frac{1}{4}$ in. dia. $\times \frac{1}{2}$ in. deep; (**116, 117**) two tail vertebræ of whale, one roughly hollowed on one side by deep incisions crossing each other at right angles, the other with irregular cuts on one face; (**118, 119**) two sides of large cup made from tail vertebra of whale; (**120**) square-shaped piece of cetacean bone, $4\frac{5}{8} \times 4\frac{1}{4}$ in.; (**121–147**) implements and portions of implements of cetacean bone, several showing traces of having been pierced with oval-shaped holes, &c.; (**148**) large shoulder-blade, polished and worn by use; (**149–158**) portions of shoulder-blades, showing traces of polishing and wear; (**159–168**) leg-bones of large animals which have been broken into half lengths, and the fractured ends smoothed and worn by use; (**169–175**) implements formed from half lengths of leg-bones roughly pointed and polished at one end; (**176–181**) bodkins formed from half lengths of leg-bones, pointed and polished at one end; (**182**) portion of bone, $1\frac{7}{8}$ in. long, formed like the letter L, with perforation through extremity of longer arm, and having shorter arm slightly curved inwards as if for hook; (**183**) "swivel" of cetacean bone, 3 in. long $\times$ $1\frac{3}{8}$ in. broad, imperfect at one end, similar to modern implement (**184**) used in Orkney at the present day to tether sheep and to prevent the rope from twisting; (**185**) implement like a flat egg-spoon, $3\frac{1}{2}$ in. long; (**186**) handle or grip end of implement, probably knife, formed from large rib, $3\frac{1}{8}$ in. long, ornamented at blade end by four dot-like depressions arranged in form of square; (**187**) implement in form of small paper-knife, $3\frac{3}{8}$ in. long with perforation through extremity of handle; (**188**) implement formed from rib-bone, $7\frac{9}{16}$ in. long, resembling an ordinary paper-cutter; (**189**) curved leg-bone, pierced at one end; (**190–197**) portions of leg-bones of animals smoothed and polished by use; (**198**) portion of large rib showing marks of cutting and polishing; (**199**) portion of bone showing a series of deep cuts at one end; (**200**) horn core of sheep showing marks of cutting at base; (**201**) lower end of small horn core with transverse circular perforation; (**202**) joint end of large bone showing marks of sawing; (**203–228**) small pins, awls, &c., of bone, from $\frac{15}{16}$ in. to $4\frac{1}{8}$ in. long; (**229–237**) narrow slips of bone, from $1\frac{3}{8}$ to $2\frac{1}{8}$ in. long, three marked on one side with incised zigzag

GO lines ; (**238**) sternum of large bird showing marks of cutting ; (**239**) bones of birds and animals, a few of the latter split longitudinally—Dr William Traill and John Traill for the Rhind Excavation Fund, 1884 and 1890.

SKERRABRAE, SKAILL, ORKNEY.

In Window Cases, North Side of First Floor.

HA 1–168. Viz.—(**1–3**) stone axes, from 5×4 to 3×2 in.; (**4–11**) pounders of sandstone marked by use at one or both ends, from 4 to 6 in. long ; (**12**) water-worn pebble, $5 \times 3\frac{3}{4}$ in., marked by streaks of red colour ; (**13**) thin rectangular piece of slate, $8\frac{5}{8} \times 6$ in.; (**14–23**) thin circular discs of slaty stone, from $2\frac{1}{2}$ to $10\frac{1}{2}$ in. dia.; (**24, 25**) rough blocks of sandstone, pierced with holes $\frac{3}{4}$ and 2 in. dia.; (**26–30**) stone cups, viz.—(**26, 27**) with cavities $2\frac{1}{2}$ and $1\frac{3}{4}$ in. dia.; (**28**) square-shaped block of red sandstone, $3\frac{1}{2} \times 2\frac{3}{4}$ in., containing reddish pigment ; (**29**) triangular, $4 \times 3\frac{1}{2}$ in.; (**30**) 4×3 in., imperfect ; (**31**) piece of hematite, rubbed smooth on three sides ; (**32–37**) implements formed from the shank-bones of oxen, perforated and cut obliquely across; (**38–41**) broken portions of shank-bones ; (**42–50**) blunt-pointed implements of bone ; (**51–89**) pins and sharp-pointed implements of bone, from $1\frac{3}{8}$ to 6 in. long ; (**90**) polished bone bodkin, $2\frac{1}{4}$ in. long ; (**91–98**) flat implements of bone, from $2\frac{1}{2}$ to 3 in. long, ground to chisel-like edge ; (**99**) 168 beads made of short sections of bones and teeth, and three pendants ; (**100, 101**) two shafts of bone partially cut transversely ; (**102–114**) shank-bones of oxen, &c., broken and split ; (**115–151**) bones, &c., viz.—(**115–121**) leg-bones and horns of red deer ; (**122–132**) of ox ; (**133–141**) of sheep ; (**142**) human thigh-bone ; (**143**) teeth and jaw-bones of horse, dog, pig, &c.; (**144–146**) skull and jaws of otter, &c.; (**147–151**) bones of birds, &c.; (**152**) flat piece of stone, $1\frac{3}{8}$ in. long ; (**153**) piece of burnt clay with impression of finger and thumb ; (**154–157**) portions of vessels of coarse, unglazed pottery ; (**158, 159**) masses of crushed fish bones, &c.; (**160**) coprolites of dog ; (**161**) contents of drain petrified ; (**162–165**) oyster-shells, perforated ; (**166, 167**) flat implements of sandstone ; (**168**) tooth of walrus, 18 in. long—Mrs John Cairns, 1866, William Watt, and Dr William Traill, 1868.

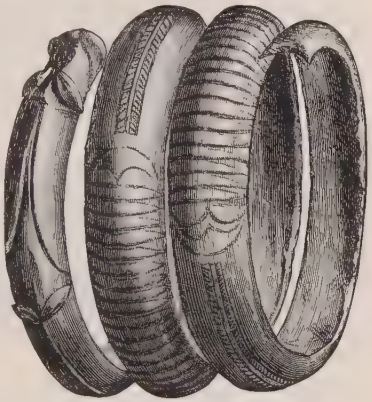
HA 36.

VARIOUS COLLECTIONS FROM EARTH-HOUSES, HUT-CIRCLES, &c.

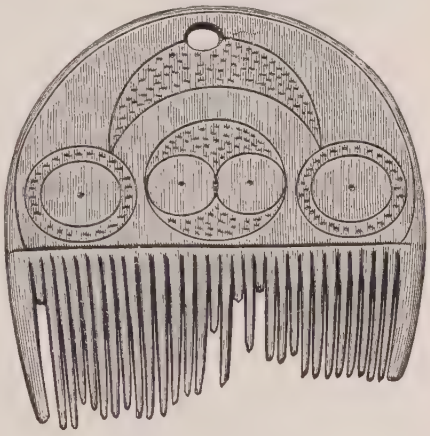
In Window Cases, North Side of First Floor.

HD 1–226. Viz.—(**1–4**) from Pitcur, Coupar-Angus, viz. —(**1, 2**) fragments of red embossed lustrous ware ; (**3**) flint chip ; (**4**) bodkin of bone, found along with iron implements—S. T. M. Hood, 1863 ; (**5–11**) fragments of red embossed lustrous ware, found with iron implements at Fithie, Forfarshire—D. K. Hall, 1868 ; (**12–16**) from circular structure in South Uist, viz.—(**12**) long-handled bone comb, $3\frac{3}{4}$ in. long, with perforation at narrow

HD end ; (**13**) thin knife of bone, 4¼ in. long ; (**14**) piece of bone, 3 in. long, grooved round edge like a lid ; (**15, 16**) bone pins, one 3½ in. long, the other 1¼ in. long, imperfect—C. Gordon, 1858 ; (**17**) fragment of red ware, from underground house at Gress, Lewis—P. Liddle, 1874 ; (**18**) block of sandstone, 13×10 in., with five oval depressions on it, from underground structure at Tealing, Forfarshire—J. Sturrock, 1880 ; (**19, 20**) from St Kilda, viz.—(**19**) fragments of coarse pottery, some ornamented; (**20**) bones and teeth of animals and birds, found with stone implements (AC 130–132)—J. Sands, 1877; (**21–34**) from underground house at Saverock, near Kirkwall, viz.—(**21**) hammer-stone, 4½ in. long, worn at both ends; (**22**) fragment of reddish pottery ; (**23–26**) fragments of deer-horn (*Cervus elaphus*); (**27, 28**) portion of horn and jaw-bone of ox; (**29–32**) portions of bones of whale, artificially cut and roughly pointed ; (**33**) bone implement with marks of cutting; (**34**) tooth of animal—George Petrie, 1867; (**35–60**) from underground house at Cairnconan, Forfarshire, viz.—(**35–38**) rude stone cups, viz.—(**35**) triangular shaped, indented with hollow, 5½×4 in.; (**36, 37**) with hollows, 2¾ in. dia.; (**38**) broken, with longitudinal hollow, 4½ in. long; (**39**) broken portion of stone with indented hollow on each side and perforation through centre connecting them ; (**40, 41**) upper stones of miniature querns, 4¾ and 3¾ in. dia.; (**42**) whorl of sandstone, 1⅝ in. dia.; (**43**) flat, circular disc of slaty stone, 1⅝ in. dia.; (**44, 45**) perforated balls of lead, ¾ in. dia.; (**46**) fragments of vessel of yellowish ware ; (**47–53**) fragments of iron implements ; (**54**) bronze ring, 3¾ in. dia., imperfect; (**55**) bronze needle, 2⅛ in. long ; (**56**) bronze armlet of three spirals, with parallel rounded mouldings in the centre and zoomorphic ends ; (**57–60**) irregularly-shaped blocks of coarse red sandstone, with cup-shaped hollows, from 2 to 4 in. dia.—Andrew Jervise, 1862 ; (**61–74**) from hut-circle of South Persie, Strathardle, Perthshire, viz.—(**61**) rubbing-stone,



HD 56.



HD 78.

HD of blue granitic stone, 28 × 24 × 12 in.; (**62–68**) round balls of quartz, the surfaces abraded by use, from 3 to 5 in. dia.; (**69, 70**) whetstones or polishers of greenish stone, 3 and 5 in. long; (**71**) whetstone of greystone, 4 in. long; (**72**) stone whorl, 1¾ in. dia.; (**73**) circular disc of mica-schist, 2 in. dia., perforated; (**74**) long-handled bone comb, 4¾ in. long, teeth imperfect—Patrick Allen Fraser, 1866; (**75–77**) from Balnabroch, Strathairdle, Perthshire, viz.—(**75**) fragment of bronze pin, 5 in. long, found in hut-circle; (**76**) block of granite, 12 × 12 × 3½ in., with shallow cup-shaped cavity; (**77**) flat, circular disc of chlorite schist, 4½ in. dia., pierced in centre, from the "Grey Cairn"—P. A. Fraser, 1866; (**78–113**) from ruins of ancient inhabited site on the

HD 117.

Ghegan Rock, near Seacliff, viz.—(**78**) round backed bone comb, 2¼ in. long, ornamented with crescents and circles; (**79**) portions of single-edged bone comb; (**80**) ornament of burnt bone; (**81**) perforated bone implement; (**82–85**) pointed implements of bone, from 3 to 5 in. long; (**86, 87**) bone needles, 1½ and 2 in. long; (**88–91**) pins of burnt and unburnt bone, 2 and 2½ in. long; (**92–98**) bone pegs, &c.; (**99**) polished disc of serpentine, 1 in. dia.; (**100**) half of small finger-ring of jet; (**101**) polishing-stone; (**102**) rude earthenware cup, 1¼ in. high × 1⅜ in. dia.; (**103–105**) fragments of coarse reddish and black pottery; (**106**) neck of large amphora of yellowish ware; (**107–109**) teeth and bones of horse, ox, deer, sheep, goat, pig, dog, rabbit, rat, &c.; (**110–111**) bones of fish and birds; (**112, 113**) upper and lower stones of quern of gneiss, 18 in. dia., oblong, rudely made—J. W. Laidley, 1870; (**114–120**) pointed implements formed of leg-bones of oxen, found with cinder (**120**) while excavating at Holland, North Ronaldsay—Dr William Traill, 1884; (**121–169**) from ruins of ancient dwelling at Stenabreck, North Ronaldsay, viz.—(**121–128**) whorls—(**121**) of bone, 1¾ in. dia., conical-shaped; (**122**) of bone, 1⅝ in. dia., conical-shaped; (**123**) of claystone, imperfect, 1¾ in. dia.; (**124**) of claystone, 1½ in. dia., ornamented with incised lines on both faces and on edge; (**125**) of claystone, rudely formed, 2⅛ × 1⅞ in. dia.; (**126**) of claystone, 1½ in. dia.; (**127**) of fine-grained sandstone, 1⅞ in. dia.; (**128**) of claystone, 1⅞ in. dia., of rude make; (**129**) irregularly circular disc of sandstone, 5 × 4½ in. dia., showing traces of burning round the edges on both sides; (**130**) sinker of mica-schist, 5¼ × 5 in., with perforation through upper end; (**131**) shells of limpet (*Patella vulgaris*), found inside an earthen cooking pot; (**132**) fragments of fibre apparently of wood or bark; (**133**) circular disc of bone, 1¾ in. dia. and ⅝ in. thick; (**134**) shells of snail (*Helix nemoralis*); (**135**) oblong, flattish, oval, bone implement, with handle, 10¼ in. long, partly polished on one side; (**136, 137**) implements made from leg-bones of large animals, one (**136**) finely polished, found in press among the ruins; (**138**) curved

HD implement of bone, 5¾ in. long, one end pointed ; (**139**) portion of rib-bone of animal showing marks of cutting on one side, and cut obliquely at one end ; (**140**) portion of bone implement, polished on one side ; (**141**) bone pin, 2¾ in. long, with rudely-formed head ; (**142**) portion of animal's leg-bone from which pieces have been cut ; (**143**) bone key of tumbler

HD 143.

lock, found near the doorway ; (**144**) fragment of steatite showing traces of cutting ; (**145–161**) teeth and bones of boar, dog, domestic fowl, wrasse and other fish, shells of oysters, mussels, &c. ; (**162–169**) portion of iron knife and fragment of its handle, and fragments of other iron implements ; (**170**) vessel of clay showing traces of burning on outside, 5⅞ in. dia. by about 6 in. high, imperfect ; (**171**) vessel of reddish clay,

HD 171, 173.

5½ × 4¾ in., outside blackened with soot ; (**172**) vessel of reddish clay, 5 × 4¾ in., bottom blackened, imperfect ; (**173**) vessel, 4¼ × 4⅜ in., outside blackened with soot, rim imperfect ; (**174, 175**) bottoms and portions of sides of clay vessels, one blackened on outside ; (**176**) lip and portion of sides of another, rudely formed, 3 in. across mouth ; (**177**) portion of vessel, 4½ in. dia. ; (**178–226**) fragments of rude vessels of clay, mostly blackened on the outside—Dr William Traill, 1884.

COLLECTIONS FROM VITRIFIED FORTS.

HH 1–51. Viz.—(**1–46**) specimens of vitrified matter, from Dunskeig, Carradale, and Dun Mac Uisneachan, Argyllshire ; Cullen, Banffshire ; Finhaven, Forfarshire ; Craig Phadric, Inverness ; Dun-na-goil, Bute ; Howden Moor, Jedburgh ; Rousay, Orkney, &c. ; (**47–51**) from Dun Mac Uisneachan, Loch Etive, Argyllshire, viz.—(**47**) iron dagger-blade, 12 in. long ; (**48**)

HH portion of broad two-edged sword ; (**49**) penannular ring of iron, $2\frac{3}{4}$ in. dia. ; (**50**) hollow disc of bronze, $1\frac{1}{8}$ in. dia., with series of concentric circles in red enamel on upper face, surrounding central circular space filled with yellow enamel ; (**51**) finger-ring of bronze, a thin flat strip of metal bent to circular shape—Miss Jessie Knox Smith, 1885.

VARIOUS COLLECTIONS FROM CAVES.

HM 1-6. Viz.—(**1, 2**) fragment of urn and bones of infant, found in rock retreat at Seacliff—George Sligo, 1872 ; (**3, 4**) implement of bone with square hole at one end, and fragments of pottery, from rock shelter at Hunterston, Ayrshire—R. W. Cochran-Patrick, 1879 ; (**5**) collection of bones of animals, &c., from cave in Colonsay—Symington Grieve, 1880, 1883 ; (**6**) portion of bone implement, from St Ninian's Cave, Glasserton, Wigtownshire—Sir H. E. Maxwell, Bart., 1889.

BORNESS CAVE, KIRKCUDBRIGHTSHIRE.

In Table Case in Wing, East End of First Floor.

HN 1-179. Viz.—(**1-13**) portions of breccia and stalagmite, enclosing bones and teeth of animals, charcoal, &c. ; (**14-17**) portions of breccia and stalagmite, enclosing portions of human skulls ; (**18-27**) polishers and whetstones, from $2\frac{1}{2}$ to $6\frac{1}{2}$ in. long, two perforated ; (**28**) sharpening-stone, oval-shaped, $3\frac{1}{4}$ in. long, with groove on each face ; (**29-34**) implements of stone, viz.—(**29, 30**) circular discs of claystone, perforated, one marked with incised lines ; (**31, 32**) flat pieces of sandstone, perforated ; (**33**) whorl of yellowish sandstone, $1\frac{3}{4}$ in. dia., grooved round middle ; (**34**) naturally-perforated pebble of sandstone, $2\frac{3}{4}$ in. dia. ; (**35**) hammer-stone of porphyry ; (**36**) flint implement, $1\frac{1}{8}$ in. long ; (**37-45**) handle-like implements of bone, mostly pierced longitudinally, and with oval openings about $1\frac{1}{4} \times \frac{3}{8}$ in., cut in middle of their length ; (**46-48**) two long-handled bone combs, and fragment of third, ornamented with bands of parallel lines ; (**49, 50**) curiously-formed implements of bone ; (**51-56**) implements of bone and horn, viz.—(**51-53**) handles of deer-horn, pierced longitudinally ; (**54**) metatarsal bone of sheep, pierced in middle ; (**55**) curiously-formed implement of bone resembling a jaw-bone ; (**56**) pointed and hollowed implement, 5 in. long, made from tine of deer-horn ; (**57**) end portion of handle of bone comb, ornamented ; (**58-69**) implements, &c., of bone, viz.—(**58**) smoothing bone, $3\frac{1}{2}$ in. long ; (**59**) metatarsal bone of ox, perforated ; (**60-69**) pieces of bone, cut and perforated, button-like objects, &c. ; (**70-75**) long-handled spoons (one $6\frac{1}{2}$ in. long, with looped head), and portions of the same ; (**76-89**) pegs, awls, &c., of bone ; (**90-100**) implements of bone, apparently handles of spoons ; (**101-112**) bone needles, pins, pegs, &c. ; (**113-122**) pointed implements of bone, mostly awls or borers ; (**123-133**) pointed implements of hollowed bone, cut obliquely at one end ; (**134-141**) various implements of cut bone ; (**142-156**) portions of deer-horn artificially cut and worked into handles, &c. ; (**157-160**) circular pieces of bone, perforated, and (**160**) hemisphere of bone, ornamented with dot and two concentric circles ; (**161-171**) articles of bronze, viz.—(**161**) stud-like ornament of bronze, $1\frac{5}{8}$ in. long, (**162**) thin circular bronze brooch, $1\frac{1}{4}$ in. dia., showing traces of enamel ; (**163-171**) fragments of bronze

HN including link of a chain ; (**172**-**176**) fragments of vitreous paste, glass, and fragment of small cup of red lustrous ware ; (**177**) grains of charred wheat ; (**178**) fragments of charred beech, ash, willow, hazel, and other trees ; (**179**) fragments of iron.

THE OSSEOUS REMAINS OF THE CAVE ARE—

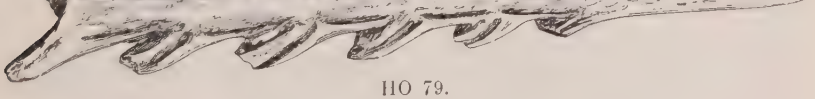
Mammalia—Rabbit, water-rat, black rat, field-mouse ; horse, ox, sheep, red deer, roe deer, pig ; badger, otter, fox, cat, marten, &c. *Aves*—Buzzard, hen-harrier, common fowl, pigeon, rook, magpie, starling, razor-bill, swan, gull, &c. *Batrachia*—Frog. *Pisces*—Wrasse, &c., and many small bones. *Mollusca*—*Tapes* (2 spec.), *Cardium echinatum*, and *Cardium edule*, *Mytilus edulis*, *Pectunculus glycimeris*, *Pecten maximus*, *Ostrea edulis*, *Anomia ephippium*, *Patella vulgata*, *Littorina* (2 spec.), *Purpura lapillus*, *Buccinum undatum*, *Fusus antiquus*, *Trochus lineatus*, *Zonites nitens*—Presented by Adam J. Corrie, William Bruce Clarke, A. R. Hunt, and Rendall J. Johnston, 1878.

COLLECTIONS FROM CAVES.

[From England, France, &c.]

In Desk Cases on North Side of Second Floor.

HO 1 271. Viz.—(**1**-**33**) collection from cave in Creswell Crags, Derbyshire, viz.—(**1**-**8**) portions of large bones, two fragments of deer-horn, and tooth of horse ; (**9**-**33**) one scraper, one flake, chips of flint, portions of bones, polished, small fragment of pottery, and small piece of iridescent glass—Rev. Robert Horn ; (**34**-**201**) collections from the caves and rock shelters in Valley of Vézère, France, viz.—(**34**-**37**) masses of breccia, containing flint implements and flakes and animal remains ; (**38**-**45**) rude elongated scraper, rude chopper-like implement, small triangular-shaped implement, and five flakes, from Laugerie ; (**46**-**50**) four rude chopper-like implements and flake, from Le Moustier ; (**51**-**58**) elongated scraper and seven flakes, from Les Eyzies ; (**59**-**61**) rude scraper-like implement and two flakes, from Gorge d'Enfer ; (**62**-**69**) eight small flakes ; (**70**) tanged harpoon-head of reindeer-horn, $6\frac{1}{16}$ in. long, with three barbs on one side and four on the other ; (**71**-**73**) two small needles of bone (imperfect) and double-pointed bone or horn pin, $1\frac{5}{8}$ in. long ; (**74**-**78**) five fragments of implements of deer-horn, partly polished by use—all from La Madelaine ; (**79**-**81**) casts, viz.—harpoon-head of reindeer-horn, $4\frac{1}{4}$ in. long, with six barbs



HO 79.

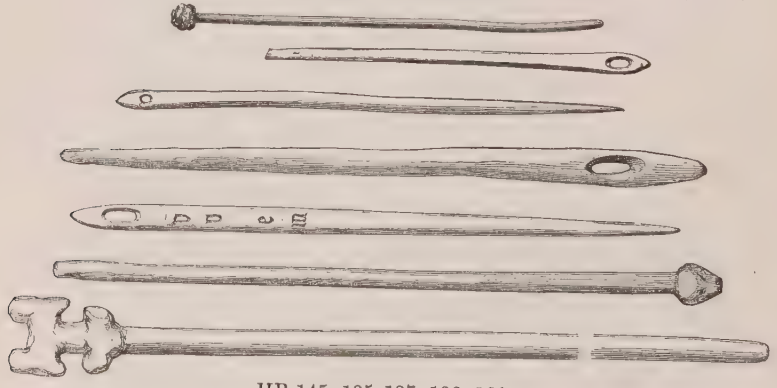
on one side and five on other, marrow-spoon of reindeer-horn, $7\frac{5}{8}$ in. long, ornamented with incised lines, &c., both from Laugerie Basse, and implement of reindeer-horn, $6\frac{1}{2}$ in. long, pierced with round hole and carved with figure of horse in relief, from La Madelaine ; (**82**, **83**) two portions of reindeer-horn, from La Madelaine ; (**84**-**201**) bones and teeth of animals, from La Madelaine, Laugerie, and Les Eyzies—Messrs Lartet and Christie, 1865 and 1869 ; (**202**-**258**) from Mentone, viz.—(**202**-**220**) four small

HO scrapers, three small worked flakes or knives, and twelve flakes and chips; (**221–258**) bones, teeth of animals, shells, &c.—R. W. Cochran-Patrick, 1876; (**259–263**) human jaw imbedded in cave-earth, portion of deer-horn (*Cervus elaphus*), and split bones, localities unknown—Sir James Young Simpson, 1871; (**264–270**) small scrapers of flint, &c., from Mentone—Sir Herbert Maxwell, 1889; (**271**) collection of flint flakes and chips, from La Madelaine, Dordogne, France—Messrs Lartet and Christie.

MISCELLANEOUS COLLECTIONS FROM REFUSE-HEAPS, &c.

In Window Cases, North Side of First Floor.

HR 1 478. Viz.—(**1–14**) flint and chert implements, shells, and bones of animals, from Little Ferry, Sutherlandshire—Lawson Tait, 1869; (**15–39**) bones and teeth of animals, shells, vitrified matter, &c., from crag above Dunsappie Loch, Edinburgh—J. Chalmers and J. Anderson, 1872; (**40–94**) from Inchkeith, viz.—(**40–49**) bones of sheep (*Ovis aries*); (**50–59**) teeth and bones of horse (*Equus caballus*); (**60–62**) bones of ox (*Bos taurus*); (**63–64**) bones of grey seal (*Halichœrus gryphus*); (**65**) vertebra of pig (*Sus scrofa*); (**66–79**) bones of rabbit (*Lepus cuniculus*); (**80–82**) bones (unknown); (**83–94**) shells of *Littorina littorea, Patella vulgata, Buccinum undatum, Ostrea edulis, Tapes pullastra, Purpura lapillus, Pecten varius, Pecten maximus*—David Grieve, 1872; (**95–130**) from Hillswick, Shetland, viz.—(**95–98**) long-handled bone combs, three imperfect; (**99–114**) punch and pins of bone, &c.; (**115–123**) shells of oyster, periwinkle, &c.; (**124–130**) fragments of pottery—Millen Coughtrey, 1871; (**131–183**) from Craig of Boyne, Banffshire, viz.—(**131, 132**)



HR 145, 135–137, 132, 131.

bone pins, 3½ and 6 in. long, one with ornamented head; (**133–137**) needles, from 2½ to 5½ in. long, one inscribed in black-letter; (**138–144**) worked bones; (**145–147**) brass pins; (**148, 149**) two halves of cloth-mark inscribed Corte; (**150**) portion of window-glass; (**151–157**) fragments of pottery, some glazed; (**158–183**) skulls of sheep, bones of other animals and fish—R. Garland, 1870; (**184–192**) three needles, five pins,

HR and small ring, all of copper, from Reay, Sutherlandshire—T. F. Jamieson, 1870; (**193–208**) from St Tredwell's Chapel, Papa Westray, viz.—(**193**) iron spear-head; (**194**) oblong playing dice of bone; (**195**) portion of bone ring; (**196–208**) fragments of red and brown pottery, some glazed and ornamented—W. Traill, 1882; (**209–249**) teeth of horse and ox, from Freswick and Sinclair's Bay, Caithness; (**250–273**) tooth and bones of animals, pottery, shells, &c., from Dunbar—J. Jeffrey, 1871; (**274**) collection of fragments of pottery, from Glitna Kirk, Uyea Sound, Shetland—T. J. Sandison; (**275–277**) collection of fragments of pottery

HR 148, 149.

(mostly glazed), piece of bronze tubing, and tooth of horse, from Lossiemouth—E. G. Duff, 1882; (**278–450**) from the monastery and nunnery, Iona, viz.—bones of mammals—ox (*Bos taurus*), sheep (*Ovis aries*), pig (*Sus scrofa*), horse (*Equus caballus*), deer (*Cervus elaphus*), goat (*Capra hircus*), dog (*Canis familiaris*), cat (*Felis catus domesticus*), whale (*Balænoptera* —— and *Globiceps melas*); aves—common fowl (*Gallus domesticus*), goose (*Anser ferus*), red grouse (*Lagopus Scoticus*), common cormorant (*Phalacrocorax carbo*); pisces—cod (*Gadus morrhua*); mollusca —periwinkle (*Littorina littorea*), limpet (*Patella vulgata*), whelk (*Buccinum undatum*), oyster (*Ostrea edulis*), &c.—Dr J. A. Smith, 1877; (**451–478**) from fort at Seamill, Ayrshire, viz.—(**451**) hammer-stone of quartzite, abraded at ends by use; (**452**) small stone ball; (**453–460**) portions of discs, and perforated pieces of shale; (**461**) plate of bone, $2\frac{7}{8} \times 1$ in., with perforation at each end; (**462–467**) portions of deer-horn and bone, showing signs of use; (**468**) portion of whetstone of sandstone with deep groove; (**469**) wheel-like object of bronze, $1\frac{3}{4}$ in. dia.; (**470–476**) thick bronze ring, $\frac{3}{4}$ in. dia., disc of thin sheet bronze, $1\frac{7}{8}$ in. dia., perforated through centre, and portions of sheet bronze; (**477, 478**) portions of glass, iron, &c.—Dr Robert Munro, 1886.

NEW ZEALAND.

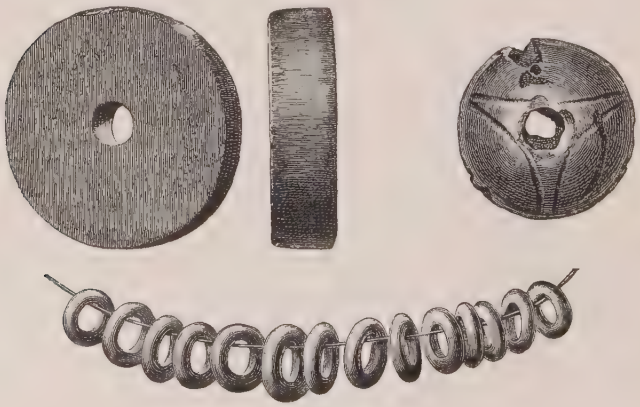
In Desk Case, South Side of Second Floor.

HS 1–24. Bones of the moa (extinct), and shells, from refuse-heaps, Otago—Dr Lauder Lindsay, 1864, and Rev. Dr James Begg, 1880.

COLLECTIONS FROM CRANNOGS OR LAKE-DWELLINGS.

In Floor Case, South Side of First Floor.

HT 1–83. Viz.—(**1–5**) from crannog at Lochlee, Ayrshire, viz.—(**1**) iron shears, 6 in. long; (**2**) whetstone of sandstone, 5 in. long, with deep cavity in one side—both by Captain W. Gillon, 1882; (**3**) cast of wooden block, $5 \times 4\frac{3}{4}$ in., carved on both sides with Celtic ornamentation; (**4**) peg of oak, 15 in. long, with hole, 2 in. long in centre; (**5**) fragments of leather shoes—Dr Robert Munro. (**6–9**) From Donald's Isle, Loch Doon, Ayrshire, viz.—(**6**) fragment of bead of red and yellow vitreous paste; (**7**) portion of polished stone; (**8–9**) small fragments of pottery, iron, &c.—Dr Robert Munro, 1881. (**10–14**) From Loch Inch-Crindil, Galloway, viz.—(**10**) double-edged bone comb, $2\frac{3}{4}$ in. long, ornamented with scrolls and circles, imperfect; (**11**) oblong piece of bronze; (**12**) fragment of ring of vitreous paste; (**13**) fragment of bronze vessel; (**14**) two coins of Charles II.—Earl of Stair, 1872. (**15–19**) From Barhapple Loch, Wigtownshire, viz.—(**15**) whetstone, 6 in. long; (**16**) ring of cannel-coal, $2\frac{1}{4}$ in. dia.; (**17**) pieces of charred wood; (**18**) portion of lead ore; (**19**) charred nut—Deposited by Earl of Stair. (**20, 21**) Double-edged combs of wood, from Ledaig Moss, near Connel Ferry, Argyllshire—Dr R. Angus Smith, 1874. (**22**) Portion of pile from lake-dwelling in Loch of Clans, Kilravock, Nairnshire. (**25, 26**) Fragments of pottery, bones, vitrified stones, &c., from lake-dwelling site in Lochleven, Kinross-shire—R. Burns Begg, 1888. (**27–62**) From Airieolland, Wigtownshire, viz.—(**27–30**) hammer-stone of quartzite and gritty sandstone; (**31–34**) whetstones; (**35–40**) discs of claystone, one perforated and imperfect; (**41**) whorl-like object



HT 41, 45, 46.

of horn, $1\frac{1}{4}$ in. dia., perforated; (**42**) ring of shale, $1\frac{5}{16}$ in. dia.; (**43**) jet bead, $\frac{13}{16}$ in. dia.; (**44**) portion of large ring of jet; (**45**) button-like object of bronze, 1 in. dia., plano-convex in section, ornamented; (**46**) fourteen small beads of red vitreous slag; (**47, 48**) fragments of two crucibles; (**49**) bottom and portion of side of small clay crucible; (**50–58**)

HT flakes and chips of flint; (**59**) three fragments of vitrified matter; (**60**) portion of hematite; (**61**) portion of iron implement; (**62**) animal's tooth—Sir Herbert Eustace Maxwell, 1889. (**63–83**) Miscellaneous, viz. —(**63**) finger-ring of stone, from Whitfield Crannog; (**64, 65**) portions of two jet rings, and (**66, 67**) small wooden implement and hammer-stone, from Barhapple Crannog; (**68–83**) hammer-stones, &c., from Black Loch of Myrton—Sir Herbert Eustace Maxwell, 1889.

DOWALTON LOCH CRANNOG, WIGTOWNSHIRE.

In Floor Case, South Side of First Floor.

HU 1–70. Viz.—(**1**) patella of bronze, tinned inside, with handle, inscribed P . CIPIPOLIBI, on outside, opposite to handle, is a human face in relief,

HU 1.

surrounded by movable ring; (**2**) bronze basin, 10 × 4 in. dia., of sheet metal, fastened by rivets, and mended with several patches; (**3**) bronze basin, 12 × 4 in. hammered out of one sheet; (**4**) bronze basin, with projecting rim, 1 in. broad; (**5**) bronze handle of large caldron; (**6**) short tube of bronze with projecting rim; (**7**) bronze penannular ring or brooch, 1¾ in. dia., with bulbous extremities; (**8**) plain bronze ring 1 in. dia.; (**9**) small fragment of bronze; (**10**) small bronze plate, 1 in. long; (**11, 12**) iron axe-heads, one 6½ in. long, with haft hole close to head, the other 6 in. long, with perforation in centre; (**13**) iron hammer-head, 8½ in. long, perforated in centre; (**14**) wooden boat paddle, 2 feet 4 in. long by 10 in. broad; (**15–22**) portions of wooden piles, &c., some showing mortise cuttings; (**23–25**) wooden wedges, &c.; (**26**) portion of layer of fern, which formed substratum of crannog; (**27**) half of ring, of white vitreous paste, 3 in. dia., streaked with blue; (**28**) half of similar ring; (**29**) ribbed bead of blue vitreous paste, 1½ in. dia., with tube of bronze through centre, and ornamented with three bands of twisted yellow enamel;

HU (**30**) ribbed bead of earthenware, $\frac{3}{4}$ in. dia., with traces of green glaze; (**31**) white bead of vitreous paste, $\frac{1}{2}$ in. dia., with red spots; (**32**) amber

HU 35.

bead, $\frac{3}{4}$ in. dia.; (**33**) half of bead of white glass, streaked with blue; (**34**) portion of blue glass; (**35**) portion of leather shoe, with finely-stamped pattern; (**36**) small clay crucible; (**37**) whetstone, 5 in. long; (**38, 39**) fragments of handles of iron vessels; (**40**) portion of iron slag; (**41–60**) bones of ox, sheep, and swine —Sir William Maxwell of Monreith, 1865; (**61, 62**) whetstone, $5\frac{3}{4}$ in. long, and bronze mounting, ornamented with trumpet-shaped spaces, from another crannog in same loch—R. Vans Agnew, 1882; (**63–70**) viz.—(**63**) portion of ribbed earthenware bead with bluish-green glaze; (**64**) two portions of armlet of white vitreous paste; (**65**) ring of shale, $1\frac{1}{4}$ in. dia., rudely made; (**66**) whorl of lead, $1\frac{3}{8}$ in. dia.; (**67**) portion of vessel of Samian ware with everted rim; (**68**) rectangular plate of stone, $3\frac{7}{16}$ in. × 3 in. × $\frac{3}{16}$ in. thick, with rounded corners, faces partly polished; (**69**) portion of whetstone, $\frac{7}{8}$ in. wide and $\frac{9}{16}$ in. thick; (**70**) whetstone—Sir Herbert Eustace Maxwell, 1889.

HU 62.

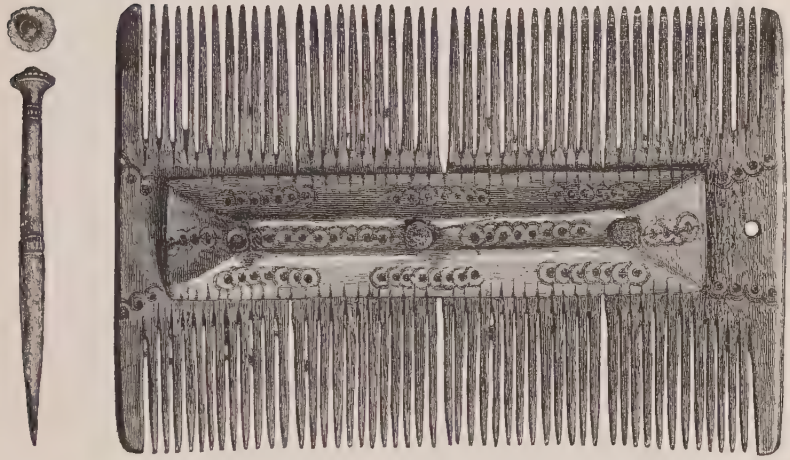
BUSTON CRANNOG, AYRSHIRE.

In Floor Case, South Side of First Floor.

HV 1-201. Viz.—(1) axe-head of iron; (2) auger of iron, 14 in. long; (3) spear-head of iron, $8\frac{1}{4}$ in. long; (**4–6**) arrow-heads of iron; (**7–12**) knife-blades of iron; (**13, 14**) spiral ornaments of iron; (**15, 16**) awls of iron; (**17**) ferrule; (**18–20**) files (?); (**21, 22**) chisels; (**23**) implement of iron, 2 in. long, double pointed, with twisted and looped stem; (**24**) buckle; (**25**) spring-bolt of padlock, 5 in. long; (**26**) conical ferrule, $2\frac{1}{2}$ in. long; (**27–34**) nails, &c.; (**35–44**) implements of deer-horn and bone; (**45–47**) bone knobs; (**48–50**) double-edged combs; (**51**) fragments of combs;

HV

HV 3.



HV 88, 49.

HV 77, 92.

HV (**52**) bone needle; (**53–76**) round and flat-headed pins; (**77–79**) knife and fragments of flint; (**80**) whorl of sandstone; (**81–85**) bead and fragments of rings of jet; (**86**) circular disc of vitreous paste, $\frac{7}{8}$ in. dia.; (**87**) portion of button (?), $\frac{7}{8}$ in. dia.; (**88, 89**) ornamented bronze pins, 2 in. long; (**90**) circular head of bronze pin, $1\frac{1}{4}$ in. dia.; (**91**) gold finger-ring, spiral, with $5\frac{1}{2}$ twists, $\frac{3}{4}$ in. dia.; (**92**) ditto, spiral, $6\frac{1}{4}$ twists, $\frac{3}{4}$ in. dia., the ends ornamented; (**93–97**) beads of variously coloured vitreous pastes; (**98–100**) fragments of blue glass; (**101**) gold plating of obverse and reverse of an early forgery of coin, probably Saxon of the 6th or 7th century; (**102**) circular brass brooch, $1\frac{1}{2}$ in. dia., ornamented with parallel lines; (**103–105**) mountings of thin bronze; (**106**) peculiarly shaped implement of bone; (**107–114**) fragments of leather; (**115–131**) fragments of glazed pottery; (**132–140**) fragments of pottery; (**141**) small cup-stone or mortar; (**142**) crystals of Vivianite; (**143**) fragments of false Samian ware; (**144, 145**) crucibles; (**146**) portion of bowl of dark coloured pottery; (**147–150**) one bone and three deer-horn handles; (**151, 152**) perforated disc of wood, $2\frac{1}{2} \times 1\frac{7}{8}$ in., and flat piece of bone, $2\frac{5}{8} \times \frac{7}{8} \times \frac{1}{8}$ in.; (**153, 154**) large wooden pegs, one imperfect; (**155**) portion of burnt wood bored with four holes; (**156–197**) bones and fragments of deer-horns, many showing traces of cutting; (**198, 199**) rude discs of sandstone, 3 and $3\frac{3}{4}$ in. dia., each with perforation through the centre picked from each side; (**200**) oblong pebble of sandstone, $12 \times 4\frac{1}{8} \times 1\frac{3}{4}$ in., with picked perforation at one end; (**201**) stone mould—Earl of Eglinton, 1883, and Dr Robert Munro, 1886.

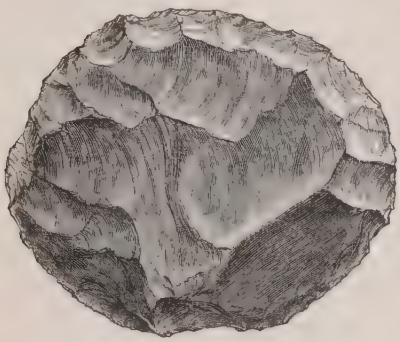
LOCHSPOUTS CRANNOG, AYRSHIRE.

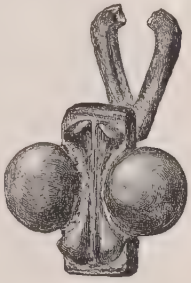
In Floor Case, South Side of First Floor.

HW 1–41. Viz.—(**1–3**) whetstones, viz.—(**1**) $7\frac{1}{4} \times 1\frac{3}{8}$ in.; (**2**) $5\frac{3}{8} \times \frac{7}{8}$ in.; (**3**) $3\frac{7}{8} \times 2\frac{1}{8}$ in., broken at one end and having small hole at other; (**4**) portion of circular disc of micaceous sandstone, $4\frac{1}{4}$ in. dia., polished on both surfaces; (**5, 6**) portions of similar disc of indurated sandstone, $4\frac{5}{8}$ in. dia.; (**7**) oval pebble of sandstone, $3\frac{1}{2}$ in. dia., with indented hollows on opposite sides; (**8**) whorl of fine sandstone, $1\frac{5}{8}$ in. dia.; (**9, 10**) flint scrapers $1\frac{3}{4}$ and $\frac{7}{8}$ in. dia.; (**11**) cruciform pendant of jet, $1\frac{1}{2}$ in. dia., ornamented with incised circles; (**12, 13**) rings of jet, each $1\frac{1}{4}$ in. dia.; (**14, 15**) portions of rings or bracelets of jet; (**16**) flat piece of jet; (**17, 18**) ribbed beads of green glazed ware; (**19, 20**) yellow beads of vitreous paste; (**21**) fragment of green glass; (**22**) circular conical setting of crystal, 1 in. dia.; (**23**) bronze mounting with two rivets; (**24**) whorl of lead; (**25**) bronze key, $1\frac{1}{2}$ in. long; (**26**) double spiral of bronze wire; (**27, 28**) bronze mountings; (**29**) piece of bronze mounting, $4\frac{1}{2}$ in. long; (**30**) bone pin; (**31, 32**) fragments of bone pins; (**33**) bone implements;

HW 4.

HW (**34**) tine of a roebuck, 7¼ in. long; (**35–38**) fragments of Samian ware; (**39, 40**) fragments of unglazed pottery; (**41**) lower portion of red deer





HW 9, 28.

horn (*Cervus elaphus*), the brow antler smoothed by use—Deposited by Sir James Fergusson, Bart., of Kilkerran, 1883.

COLLECTIONS FROM LAKE-DWELLINGS.

[From Ireland, Switzerland, &c.]

In Desk Cases, North Side of Second Floor.

HZ 1–267. Viz.—(**1–7**) fragments of pottery of coarse ware, some ornamented, from Ballydoo Lough, County Fermanagh, Ireland—Rev. Dr Graves, 1873; (**8–243**) from Lake Constance, viz.—(**8–32**) polished axe-heads of sandstone, serpentine, &c., from 1¾ to 5¾ in. long, from Wangen; (**33, 34**) axes, 1¾ and 2¼ in. long, of jadeite, &c., from Robenhausen; (**35–37**) stone axes in stag-horn sockets; (**38**) stag-horn socket; (**39–46**) sawn pieces of stone, illustrating the method by which axes were made, from Wangen; (**47–52**) grinding-stones, from Wangen; (**53–58**) stone balls, from 2¾ to 1¾ in. dia.; (**59–64**) spindle-whorls of clay, from 1¼ to 1¾ in. dia.; (**65–84**) arrow-heads, scrapers, knives, &c., of flint; (**85–98**) specimens of pottery, from Wangen and Robenhausen; (**99–102**) specimens of indurated clay that covered wattled walls of dwellings; (**103**) axe of deer-horn perforated for handle, from Robenhausen; (**104–106**) implements of deer-horn about 7 in. long; (**107–136**) pointed implements of polished bone and horn; (**137–150**) chisel pointed implements of polished bone and horn, from Wangen and Robenhausen; (**151**) implement of wood, 6¾ in. long, smoothed at one end; (**152–155**) handles of deer-horn; (**156–158**) floats of wood for fishing lines, from Robenhausen; (**159**) pieces of charred bread, from Wangen; (**160**) charred apples which had been cut into halves, dried, and stored for food, from Wangen; (**161**) hazel-nuts; (**162–164**) charred grains and ears of wheat; (**165**) seeds of wild raspberry; (**166–210**) collection of 45 different varieties of seeds, &c., from Robenhausen; (**211–213**) specimens of coarse woven cloth of flax of different textures and patterns, from Robenhausen; (**214**) clay cone or loom-weight, from Robenhausen; (**215**) oak pile, 2 ft. 8 in. long, from dwelling of Bronze Age, at Morges, Lake Leman; (**216–241**) teeth and bones of various domestic animals, from Wangen;

HZ (**242**, **243**) deer-horns—M. Troyon, 1863, Lord Rosehill, 1870, and Purchased, and Alexander Curle, 1879; (**244–266**) collection from Terp Mound at Aalzum, Friesland, which had probably been the site of a pile dwelling, viz.—(**244**) bridle-bit of iron; (**245–247**) skate made from leg-bone of horse, curved implement of deer-horn, $7\frac{3}{4}$ in. long, with perforation through thickest end, and leg-bone of small ox; (**248–260**) tooth of dog, needle, $2\frac{1}{16}$ in. long, another $3\frac{1}{4}$ in., two bodkins, $3\frac{5}{16}$ in. and $3\frac{5}{8}$ in. long, each with perforated head, small bead of variegated glass, portion of single-edged comb of bone, the round back and few teeth of another similar comb, whorl of clay, $1\frac{3}{4}$ in. dia., whorl of bone, $1\frac{1}{2}$ in. dia., ornamented on top and edge with incised lines, part of hollow wooden handle, and piece of native amber polished; (**261**, **262**) tool of bone, $6\frac{3}{4}$ in. long × $\frac{7}{16}$ in. dia., tapering to each end, and curved back of a single-edged bone comb; (**263**) fragments of pottery; (**264**) disc of clay; (**265**) horn core of small ox; (**266**) whetstone—Dr Robert Munro, 1889; (**267**) vessel of black ware, $3\frac{3}{8} \times 4\frac{1}{8}$ in., with contracted neck, from Neuchâtel—Purchased 1889.

ROCK SCULPTURES, CUP-MARKED STONES, &c.

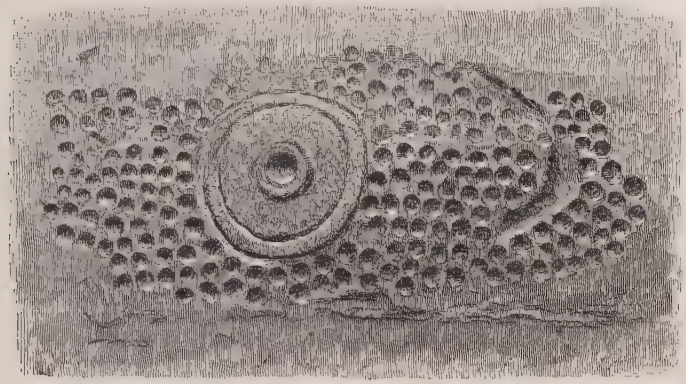
(Probably of Pagan Times.)

In East End of Ground Floor.

IA 1–22. Viz.—(**1**) cast of circles incised on rocks at Lochgilphead, Argyllshire—Sir J. Y. Simpson, 1864; (**2**) stone, $42 \times 15 \times 8$ in., with incised concentric circles, from Eday, Orkney—R. J. Hebden, 1861; (**3**) stone, 48×14 in., with incised cup, surrounded by three concentric circles, found built into wall of chambered tumulus at Pickaquoy, Kirkwall, Orkney—James Farrar, 1864; (**4**) sandstone block, 17×10 in., with spiral cut on its largest extremity, found at Broch of Redland, Firth, Orkney—George Petrie, 1851; (**5**) freestone boulder, with incised concentric circles, cups, &c., from Letham Grange, Forfarshire—John Hay; (**6**) red sandstone slab, $30 \times 22 \times 4$ in., incised with double concentric circles, from La Mancha, Peeblesshire—James Mackintosh, 1867; (**7**) stone, $25 \times 18 \times 2\frac{1}{2}$ in., with five concentric lines arranged in lozenge form, from cist at Cairnbaan, Argyllshire—J. R. Smith, 1860; (**8**) block of granite, $16\frac{1}{2} \times 12$ in., with several cup-markings on both sides, Cabrach, Banffshire—William Reiach, 1874; (**9**) block of granite with two cup-markings; (**10**) cast of foot-mark, cut in rock, at Dunadd, Argyllshire—Dr R. C. Maclagan, 1881; (**11**) undressed slab of sandstone, 22×17 in., with imprint of human foot, from Toab, near Kirkwall—J. Williamson and B. Hossack, 1881; (**12**, **13**) casts of stones, one with incised axe-head sculpturings, the other with rudely-incised markings resembling Ogham characters, from cist in tumulus at Kilmartin, Argyllshire—A. Fraser, 1870; (**14**) block of granite with cup-shaped hollow and groove leading to edge of stone, from Aboyne, Aberdeenshire—G. Hastie, 1883; (**15**) block of granite with cup-marking on each of its two sides,

IA 2.

IA from stone circle at Skene, Aberdeenshire—G. Hamilton, 1883; (**16–19**) casts of cup and ring markings on rock at High Banks, Kirkcudbright—George Hamilton; (**20**) sandstone block, 25 × 20 × 6 in., with twenty-



IA 18.

five cup-marks, from Williamston, St Martin's, Perthshire—Alexander Hutcheson, 1889; (**21**) stone, 19 × 8 in., with cup-mark, from Blarish, Fortingall—J. M. Gow, 1886; (**22**) slab of micaceous schist, 19 × 8 in., with five cup-marks, from Tirinne, Glenlyon—Dr John Anderson, 1886.

SCULPTURED MONUMENTS, CROSSES, &c.

(Early Christian, Mediæval, &c.)

West End of Ground Floor on North Side.

IB 1. Stone, 48 × 27 × 8 in., with incised figure of crescent and V-shaped sceptre, &c., found near the Well-house Tower in Princes Street Gardens, Edinburgh—Proprietors of the Gardens, 1861.

2. Stone, sculptured on both sides, with incised figure of crescent, &c., from St Peter's Church, South Ronaldsay, Orkney—W. H. Fotheringham, 1853.

3–6. Casts of Monumental Stones, from Islay, viz.—(**3**) 20 × 15 in., with cross, &c., on one side; (**4**) 17½ × 8 in., incised with plain cross; (**5**) 17½ × 9 in., with equal-armed cross surrounded by circle; (**6**) cast of cross, 9 ft. high, bearing on obverse figures of the Virgin and Child, David and the lion, &c., with panels of Celtic ornamentation, and on reverse four lions and four bosses of interlaced serpents surrounding central boss of similar work in high relief, from Kildalton—Mrs Ramsay, 1882.

7. Cast of Stone at Meigle, Perthshire, showing on one side a cross and animals in relief, on the other a man on horseback, on the edge two symbols—Dr Wise.

8. Cast of Stone at Meigle, displaying in relief two animals, between which is a figure, half human, half serpent—Dr Wise.

IB 9. Portion of Sculptured Stone Cross, from Hoddam Church, Dumfriesshire, with figures in relief of saints under canopies—J. T. Gibson-Craig, 1851.

10. Stone, 44 × 10½ × 8 in., showing figure of deer, and a symbol from Knock-an-Fruich, Grantown, Inverness-shire—James Finlay, 1865.

11. Slab of Mica-schist, 42 × 16 in., with "Crescent and Sceptre" on one side, found near Findlarig, Strathspey, Inverness-shire—James Finlay, 1865.

12. Cast of Stone Coffin in Churchyard of Govan, near Glasgow, ornamented with interlaced work, figures of beasts, and a hunting-scene—Purchased 1856.

13–15. Casts from portions of a Sarcophagus, sculptured in relief, with a representation of David rending the jaws of the lion, a hunting-scene, showing man on horseback, animals, interlaced work, &c., dug up near the Church of St Regulus, formerly the Cathedral, at St Andrews, Fife.

16. Sculptured Stone, 22 × 16 in., with incised cross of early type, from Mull of Sunnoness, Wigtownshire—Earl of Stair, 1873.

17. Slab of Chlorite Schist, 26 × 12 × 13 in., with incised cross, from Ilan More, Argyllshire—Prof. Sir J. Y. Simpson, 1862.

18. Fragment of Sculptured Stone, from Uyea, Shetland, said to have formed the cover to an urn of steatite containing burnt bones—J. T. Irvine.

19. Fragment of Stone with similar ornamentation, from Shetland—*Lerwick Collection.*

20, 21. Portions of Sculptured Stones, viz.—(**20**) of red sandstone, 16 × 11 × 4 in., with figure of animal having its tail raised over its back, (**21**) the right limb of an ornamented cross in sandstone, 12 × 8 × 5 in., having on one side the right hand of a crucified figure, on the other dragonesque sculpture, both found in ruins of old church, Lasswade—William Gunn, 1867.

22. Large Slab of Red Granite, 60 × 36 × 9 in., bearing on both sides the symbols called the "Elephant," the "Spectacle Ornament," and "Z-shaped Sceptre Ornament," the "Mirror," &c., from Castle Hill, Kintore—Purchased 1865.

23. Slab of Dark-coloured Granite, 42 × 36 × 9 in., with two crescents and other figures, from Castle Hill, Kintore—Purchased 1865.

24. Triangular Slab of Clayslate, 36 × 24 × 8 in., bearing the "Crescent" and "V-shaped Sceptre Ornament," from Firth, Orkney—George Petrie.

25–28. Stones from Monifieth, Forfarshire, viz.—(**25**) portion of shaft of sculptured cross, 4 ft. long, with crucifixion in relief and interlaced work; (**26**) slab of grey sandstone, 30 × 14 in., having on one face a cross ornamented with fretwork, and on the other the "Spectacle Ornament" twice repeated; (**27**) slab of grey sandstone, 18 × 11 × 3½ in., with cross on one side, and figures and symbols on the other; (**28**) slab of grey sandstone, with sculptured figures of animals (broken)—Heritors and Kirk-session of Monifieth, 1870.

29. Portion of Shaft of Sculptured Cross, 28 × 14 × 6 in., covered with interlaced work, from Liberton Tower, near Edinburgh—R. P. Scott, 1863.

30. Cast of Head of Stone Cross, 18 in. dia., with circular perforations at the angles, from Milton, Lesmahagow—R. B. Greenshields, 1867.

31. Slab of Blue Gneiss, with remains of interlacing patterns, from St Asaph's, Bereray—A. A. Carmichael, 1870.

32. Cast of the "Spectacle Ornament," and Serpent with "Z-shaped Sceptre Ornament" on stone, at Newton, Aberdeenshire.

IB 26, 27. Obverse and Reverse of each.

IB 33. Sculptured Stone with incised Cross of early form, formerly built into wall of mill at Drommore, Wigtownshire—Earl of Stair, 1873.

34, 35. Viz.—(34) circular head of cross in grey sandstone, 24 in. dia., and (35) head and part of shaft of similar cross, ornamented with interlaced work, from churchyard of Whithorn—The Heritors of Whithorn, 1875.

36. Arched Stone with Cross on Pedestal in centre, and beside it the Agnus Dei and sculptured figures, from ruins of ancient church at Forteviot—Lord Ruthven, 1874.

37. Sculptured Granite Slab, $36 \times 30 \times 7\frac{1}{2}$ in., with pattern of circles and square-shaped figure, from Strome Shunnamal, Benbecula—A. A. Carmichael, 1870.

38. Sculptured Stone bearing incised figure of Boar, partially broken away, from Clune, Dores, Inverness-shire—Colonel F. Tytler, 1878.

39–41. Sculptured Stones, from Kingoldrum, Forfarshire, viz.—(39) 24×15 in., bearing on obverse a cross ornamented with fretwork, and symbols on reverse; (40) of similar form and size, bearing similar cross on obverse, reverse defaced; (41) fragment of crucifixion, rudely incised—Rev. J. O. Haldane, 1878.

42. Cross, $34 \times 10 \times 2$ in., with interlaced work, and pierced with four circular holes at the angles, imperfect, from Balnahard, Colonsay—Sir John C. M'Neil, 1881.

43. Sculptured Slab of Greywacke, 42×17 in., from Craignarget, Gillespie, Glenluce—Mrs Young M'Dowall, 1881.

44. Fragment of Sculptured Cross-shaft, with interlaced work, $15 \times 10\frac{1}{2} \times 6\frac{1}{2}$ in., from Gosmount, Coldingham—Robert Glen, 1878.

45. Sculptured Stone, $66 \times 15\frac{1}{2} \times 5$ in., bearing equal armed cross, and pattern of interlaced work, from Glenluce Churchyard—Local Authorities, Glenluce, 1880.

46. Sculptured Stone, $70 \times 19\frac{1}{2} \times 2\frac{1}{2}$ in., having on one side a cross of interlaced work, and human and other figures, from Papil, Burra, Shetland—Gilbert Goudie, 1881.

47. Portion of Slab, $13\frac{1}{2} \times 7\frac{1}{2}$ in., ornamented with symbols and interlaced work, from Strathmartine—Allen Mathewson, 1881.

48. Sandstone Slab, probably the front of an altar tomb, 66×50 in., with cross of interlaced work in the centre, from Flotta, Orkney—George Petrie, 1871.

49. Stone, $15 \times 8 \times 3$ in., with rude incised cross, from ruined chapel of St Taran, Isle of Taransay, Harris—Captain F. W. L. Thomas, 1861.

50. Slab of Greywacke, imperfect, $34 \times 10\frac{1}{2} \times 6\frac{1}{2}$ in., with rude sculpturing on front and back, from Cassendeoch, Old Luce, Wigtownshire—Rev. G. Wilson, 1873.

51. Fragment of Stone, with interlaced work, $9 \times 6\frac{1}{2}$ in., locality unknown.

52. Fragment of Shaft of Cross of Sandstone, 7×9 in., ornamented with interlaced work, from Gattonside, Melrose—Dr J. A. Smith, 1874.

53. Cast of Slab, 37×17 in., sculptured on one side with animals, and cross ornamented with bosses and interlaced work, the other side with figure subjects and symbols, from Dunfallandy—Purchased 1882.

54. Stone, $15 \times 9\frac{1}{2}$ in., with two incised crosses, from St Ninian's Cave, Physgill, Wigtownshire—R. J. Stewart, 1882.

55. Cast of small fragment of Interlaced Work, locality unknown.

56, 57. Casts of two Stones, each bearing an incised figure of a bull, imperfect, from Burghead, Morayshire—Purchased 1874.

IB 45, 46.

IB 58. Sandstone Slab, 32 × 16 × 2 in., bearing figures of men with shields, horseman, dog, &c., sculptured in relief, from Dull, Perthshire—Heritors and Kirk-session of Dull, 1865.

59–85. Casts from Churchyard of St Vigeans, Forfarshire, viz.—(**59**) portion of cross-slab with the symbols of the mirror, serpent, &c., in relief; (**60**) slab showing figures of animals incised; (**61**) cross-slab, with interlaced work and figures of monks, &c., in relief; (**62**) recumbent slab with long central sunk panel, tapering towards one end, and ornamented round the edges with interlaced work, and having at the top a cavity to receive the base of an upright slab, sculptured with a cross bearing similar ornamentation; (**63**) cross-slab, bearing on obverse human figures and cross, ornamented with interlaced work, and on reverse human figures, &c.; (**64–84**) portions of slabs, ornamented with crosses, interlaced work, figures of men and animals, &c., in relief; (**85**) portion of top of shaft of cross, with boss in centre; (**86**) with figures in relief, of animals, &c., on other side is shaft of cross, with interlaced work, and inscribed on lower edge, DROSTEN:· | IPEVORET | E TT FOR | CUS. —Purchased 1852 and 1881.

87. Cast of Cross, 53 × 14½ in., bearing on one side an incised human figure, from Chapel of Riskbuie, Colonsay—Purchased 1881.

88. Cast of Sculptured Stone on Inchcolm, ornamented with interlaced pattern and fretwork—Alexander Rhind, 1884.

89. Cast of Inscription in debased Roman characters, on "Cat Stane," at Kirkliston, near Edinburgh—Prof. Sir J. Y. Simpson.

90–91. Casts of two Monumental Stones at Kirkmadrine, near Stranraer, viz. —(**90**) bearing the Christian monogram within circle, and inscribed— AET ω | HIC IACENT | SCI ET PRAE | CIPVI SACER | DOTES ID EST | VIVENTIVS | ET MAIORIVS; and (**91**) with similar monogram, and inscribed S ET | FLOREN | - TIVS—Sir J. Y. Simpson, 1861.

92. Cast of Stone, found near Yarrow Kirk, Selkirkshire, with inscription in debased Roman letters—The Duke of Buccleuch.

93. Portion of Cross-head of Schistose Slate, 7¾ × 8½ in., inscribed in runes KRUS . THINE . TIL . GUTHLE, from Inchmarnock, Bute—Deposited by Marquess of Bute, 1890.

94. Cast of portion of Shaft of Cross, with Latin inscription, and bearing symbol resembling the "Spectacle Ornament," probably from Ripon, Yorkshire.

95. Rough unhewn Slab of Sandstone, with figure of bull incised on one face, from Burghead—Deposited by Representatives of late George Anderson, 1891.

96. Fragment of Sculptured Stone, bearing on one side man on horseback with spear, and on the other a pattern of double spirals, from Burghead—Deposited by Hugh W. Young, 1891.

97. Cast of Stone, 41 × 21 in., bearing the symbols of the crescent and V-shaped sceptre, &c., at Inverallan, Strathspey—Sir Arthur Mitchell, 1890.

98. Portion of Stone, bearing three Ogham letters, from Abernethy—Dr Alexander Laing, 1892.

99. Stone Slab, 51 × 20 × 7 in., with interlaced work, men, animals, &c., from Tullibole, Kinross-shire—Heritors of Tullibole, 1892.

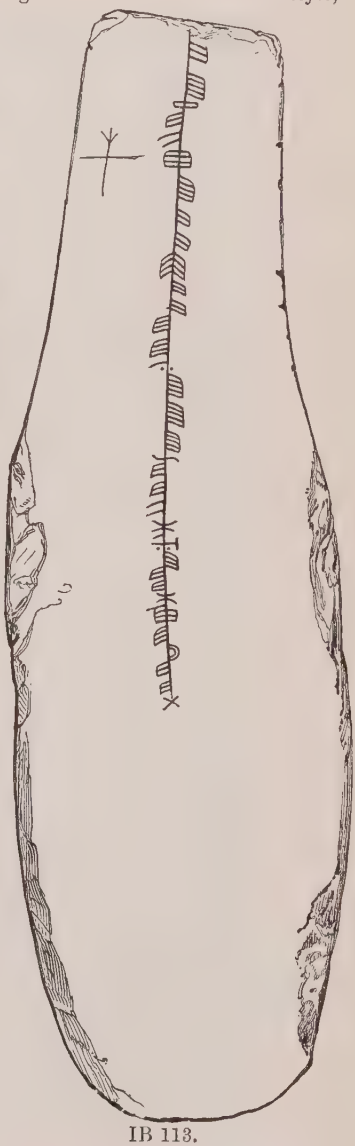
100. Stone, 48 × 13 × 4½ in., with human figure with upraised arms, from Over-Kirkhope, Ettrick—Deposited by Lord Napier and Ettrick, 1885.

101. Slab of Sandstone, 44 × 24 × 5 in., with figures of men and animals in relief, from Gellyburn, Murthly, Perthshire — Sir Douglas Stewart, 1887.

IB 101.

IB 102. Sculptured Stone, 44 × 15 in., bearing on obverse cross of Celtic style,

IB 102. Reverse.



IB 113.

and on reverse inscription in runes, from Kilbar, Barra—Mrs Gordon, 1880.

IB **103**. Block of Sandstone, 51 × 6 × 6 in., inscribed in runes, THI .... IFTIR FATHUR SIN THURBAIR..., from Cunningsburgh, Shetland—John Bruce, Sumburgh, 1879.

104–105. Fragments of Slabs, with Runic inscriptions on edges, from Aith's Voe, Cunningsburgh—Robert Cogle, 1873–76.

106, 107. Blocks of Red Sandstone, bearing Runic monograms (?), found with burials in peat in Bressay, Shetland—Dr James Hunt, 1866.

108. Plaster Cast, from stone bearing two incised inscriptions, one in debased Roman (?) characters and the other in Oghams, at Newton, Aberdeenshire—Purchased.

109. Stone, sculptured with interlaced work and figures on both sides, and with Ogham inscriptions on both edges, from Bressay, Shetland—Rev. Dr Z. M. Hamilton, 1864.

110. Stone showing Men on Horseback, Dogs, Deer, the so-called "Elephant," Symbol, &c., and bearing Ogham inscription, from Scoonie, Fifeshire—Heritors and Kirk-Session of Scoonie, 1866.

111. Cast of Sculptured Stone, ornamented with interlaced work and symbol of the "Mirror," with two lines of Ogham inscription, found at Aboyne—The Marquess of Huntly, 1873.

112. Part of Monumental Stone of Micaceous Schist, 30 in. long, with Ogham inscription on one edge, found in ancient burying-ground, St Ninian's Isle, Dunrossness, Shetland—Gilbert Goudie, 1876.

113. Monumental Stone of Brownish Sandstone, 44 × 13 in., with Ogham inscription down the centre of its face, from Lunnasting, Shetland—Rev. J. C. Roger, 1876.

114. Fragment of Stone, incised on one side, with two Ogham letters the other side ornamented with incised pattern, from Aith's Voe, Cunningsburgh, Shetland—Robert Cogle, 1873.

115. Portion of Slab of Red Sandstone, with two lines of Ogham inscription on one side, from Cunningsburgh, Shetland—Gilbert Goudie, 1883.

116. Portion of Stone Slab, bearing the upper part of incised cross, from Chapel Donnan, Kirkcolm, Wigtownshire—Charles Wallace, 1885.

117. Block of Sandstone, bearing faintly-incised cross on each face, found near Chapel Donnan, Kirkcolm, Wigtownshire—John M'Meekin, 1885.

118. Stone Slab, 17 × 10½ in., bearing fretwork, from old churchyard at Drainie (formerly Kineddar), Elginshire—Rev. Alexander Gordon, 1885.

119, 120. Portions of Sculptured Slabs of Sandstone, from Rosemarkie, Rossshire, viz.—(**119**) imperfect, with figures of two ecclesiastics, one of them holding staff; (**120**) with interlaced work on one side and edge—Major Colin Mackenzie, 1885.

121–125. Sculptured Stones from Wigtownshire, viz.—(**121**) slab, imperfect, 47 × 18½ in., one side elaborately ornamented with interlaced work, the other with geometrical patterns, from Craiglemine, Glasserton; (**122**) small fragment of wheel-head of cross, from Craiglemine; (**123**) shaft of cross, imperfect, 44 × 18½ in., elaborately ornamented on both sides with interlaced work, from Mains of Penninghame; (**124**) wheel-head and portion of shaft of small cross, 26½ × 16½ in., ornamented with interlaced work, &c.; (**125**) portion of rude stone cross, 33 × 15 in., from Knock, Glasserton—Sir Herbert Eustace Maxwell, Bart., 1886.

126. Portion of Slab of Sandstone, 27 × 11½ in., one side covered with interlaced ornament, from Mochrum, Wigtownshire—Sir Herbert Eustace Maxwell, Bart., 1889.

IB 127, 128. Portion of Sculptured Slab of Sandstone, 11 × 9 in., with head of man between heads of two animals, and showing snout of third animal and feet of fourth ; (128) portion of slab in red sandstone, probably head of a cross, $14\frac{3}{4} \times 11\frac{1}{2}$ in., displaying equal armed cross in circle, both found in churchyard, Rosemarkie, Ross-shire—Rev. Charles Macdowall, 1885.

129. Block of Sandstone, $15 \times 12\frac{1}{2}$ in., being top part of cross, ornamented on each face with figure of cross in relief within circle, from the churchyard of Mid-Calder—Gilbert Goudie, 1883.

130, 131. Two Fragments of Sculptured Stones from Tarbet, Ross-shire, viz.—(130) portion of slab ornamented with double-spirals, similar to those of the Celtic manuscripts ; (131) portion of slab, showing circular raised band of key-patterns surrounding central boss—Hugh Miller, 1889.

IB 132.

132. Fragment of Cross of Sandstone, 9 in. long, elaborately carved on one side with double spiral and interlaced ornamentation, and on other the words FILII MEDICII, from Lethnott, Forfarshire—Rev. F. Cruickshank, 1885.

133. Fragment of Cross-slab, with upper part of wheel-headed cross carved in relief, which had been brought from Eileanna-naoimh to Luing, Argyllshire—George Willison, 1890.

134. Upper portion of Cross of Bluish Slaty Stone, 32×24 in., with figure of crucifixion in relief in style of fifteenth or sixteenth centuries, from Tomna-crois, Taynuilt, Argyllshire —Rev. Thomas Mackenzie, 1890.

135, 136. Casts of Fragments of Sculptured Stones at St Vigeans, Forfarshire, viz.—(135) $12 \times 10\frac{1}{2}$ in., showing panel with "Z-shaped Sceptre" and "Spectacle Ornament;" (136) 10×4 in., one side showing "Spectacle Ornament," each circle of which has four spiral bosses, the other side showing interlaced work—D. W. Kemp, 1891.

137. Cast of Sculptured Cross at Campbeltown, Argyllshire, 11 feet high, 19 in. broad, and 4 in. thick, ornamented with foliaceous scrolls, and inscribed HEC : EST : CRVX : DOMINI : YVARI : M : HEACHYRNA : QV̄ODAM : RECTORIS : DE : KYL : RECAN : ET : DOMINI : ANDREE : NATI : EIVS

IB RECTORIS : DE : KIL : COMAN : QVI : HANC : CRVCĒ : FIERE : FACIE : BAT, the date about 1500 A.D.—Purchased.

138–140. Casts, from Islay, viz.—(138) monumental slab, $72 \times 12 \times 5\frac{1}{2}$ in., bearing sword and decoration of foliaceous scrolls; (139, 140) slabs with Latin inscriptions—Mrs Ramsay, 1882.

141. Cast of Monumental Slab, 67×19 in., with inscription, figures of animals, sword, foliaceous scroll-work, &c., from Colonsay—Purchased 1881.

142. Cast of portion of Sculptured Stone, showing chained figure of an animal from Killean, Kintyre, Argyllshire—Capt. T. P. White, 1873.

143. Part of Shaft of Stone Cross, with Latin inscription, from Eilan More, Argyllshire—Dr James Anderson, 1786.

SCULPTURED MONUMENTS, CROSSES, &c.

[From England, Isle of Man, &c.]

West End of North Side of Ground Floor.

IC 1–11. Viz.—(1) cast of portion of stone cross, with human figures, on one side of which is the "Spectacle Ornament," from Bilton, Yorkshire—Canon Raine, 1871; (2–5) from Jarrow, Durham, viz.—(2, 3) casts of fragments of interlaced work; (4) fragment, ornamented with bird and foliage in relief; (5) with figure of man repelling an animal in relief—Purchased 1866; (6) cast of fragment of interlaced work, locality unknown; (7, 8) casts of stone crosses at Kirkbraddan, Isle of Man, viz.—(7) with lacertine figures in relief, on one edge is an inscription in runes—Sir Henry Dryden; (8) with three sides covered with interlaced work in relief, the fourth with inscription in runes—Rev. J. C. Cumming, 1857; (9) cast of runic inscription, from Hackness, Yorkshire—Rev. Canon Greenwell, 1866; (10) cast of portion of slab, carved with interlaced work and inscription in bind-runes, from Kirk Andreas, Isle of Man—P. M. C. Kermode, 1889; (11) cast of stone with representation of crucifixion, found in ruins of old chapel on Calf of Man—Sir Henry Dryden, Bart., 1890.

VIKING PERIOD.

In Table Cases in East Wing of First Floor.

IL 1–113. Hoard of Silver Ornaments, Ingots, Coins, &c. (upwards of 16 lbs. weight), found in 1858 in sandhill at the burn of Rin, near Skaill, parish of Sandwick, Orkney, viz.—(1–5) large penannular ring-brooches, from $5\frac{1}{2}$ to 8 in. dia., having their extremities and the heads of the pins shaped like thistle-heads, and ornamented with engraved patterns on one side, and prickly-like ornament on the other; (6, 7) penannular brooches, having pins with similar heads; (8, 9) brooches, having their pins loosely looped on ring; (10–18) neck-rings of wreathed or spirally-twisted silver wires, with recurved ends; (19–21) neck-rings of plaited wires; (22) arm-ring, $3\frac{3}{4}$ in. dia., of plaited wires, united into solid ends; (23) arm-ring of twisted wire; (24) flat arm-band of thin metal, 3 in. dia., tapering to both ends, one terminating in a hook, the other imperfect; (25) penannular ring, triangular in section, 3 in. dia., ornamented with a row of

IL triangular spaces, having three dots in each ; (**26–49**) plain penannular rings ; (**50**) pin, 4 in. long, with circular-looped head ; (**51–58**) ingots of silver ; (**59–102**) fragments of brooches and rings, including two globular ends of large brooches, and portion of knitted silver wire, &c., which have

IL 1.

been purposely cut into small pieces ; (**103–111**) seven Cufic coins of Samanian, and four of Abbasside Caliphs, dating from 887 to 945 A.D., and a number of fragments ; (**112**) coin of Athelstane (925 A.D), struck at Leicester ; (**113**) Peter's Penny, struck at York—Treasure Trove, 1859.

IL 114–118. Penannular Rings of Silver, 3 in. dia., found in cist at Kirk o' Banks, Rattar, Dunnet, Caithness—Treasure Trove, 1873.

119–122. Penannular Ring of Silver, 2¾ in. dia., and three fragments, found in cairn in Skye—Prof. Daniel Wilson, 1863.

123, 124. Penannular Rings, 2⅜ in. dia., from Skye—Rev. Donald Macqueen, 1781.

125–156. Contents of Two Graves of Viking Period, from Ballinaby, Islay, consisting of (*Grave No. I.*)—(125) iron sword in sheath, 36½ in. long;

IL 10.

(126) iron boss of shield, with bronze handle attached; (127) bronze scabbard-end or mounting of point of quiver; (128, 129) iron spear-head and ferrule of shaft; (130, 131) axe-heads of iron; (132) pair of forge tongs, 12 in. long; (133) iron-head of smith's hammer; (134) iron-head of small adze; (135, 136) bow-handle of large iron-pot and fragments of pot; (137) portions, probably of iron helmet; (*Grave No. II.*)—(138, 139) tortoise-shaped brooches of brass, ornamented with strands of plaited silver wire; (140, 141) brass spring pins of two brooches; (142–144) portions of double discs of thin bronze plated with silver, and connected in pairs by band, 1 in. wide, ornamented with circles of bosses and border of *repoussé* work; (145) silver hair-pin, 5 in. long, with globular head of

IL filigree work; (146) chain of fine silver wire, knitted as a hollow tube,

IL 22.

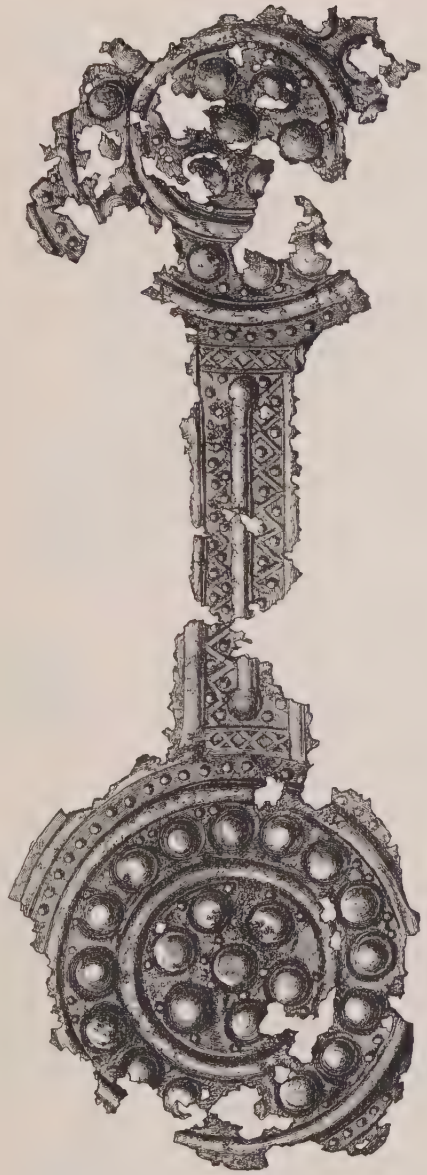
IL 24.

IL 125.

resembling Trichinopoly work; (147) saucepan of thin beaten bronze, 17½ in. long; (148) hemispherical lump of black glass, used for glossing or smoothing linen; (149–156) eleven beads of enamelled glass, four ornamented with coloured patterns, also a needle-case and ferrule of bronze—William Campbell, 1878.

IL 127.

157–178. Viking Antiquities, from Eigg, viz.—(157) sword-hilt of bronze, 7½ in. long, plated and inlaid with silver, and finely decorated; (158) massive foot of pot in solid brass; (159) part of buckle of brass, found in levelling tumulus near Chapel of St Donnan about 1830; (160, 161) fragments of iron sword, with portions of wooden scabbard; (162) small whetstone; (163) penannular brooch of bronze, 2½ in. dia., silvered, and having ends shaped like thistle-heads, but smooth; (164) portions of clothing trimmed with fur, and specimens of cloth of coarser and finer texture; (165) belt-clasp of bronze, with scroll-work pattern; (166) part of leather of belt; (167) iron axe-head of Viking type; (168) iron ferrule; (169) portion of iron sickle; (170–



IL 142, 145.

IL **172**) amber beads, found in tumulus on east side of island, near Chapel of St Donnan, in 1875 ; (**173**) penannular bronze brooch, 2½ in. dia.; (**174**) portions of iron sword ; (**175**, **176**) jet beads ; (**177**) small whetstone,

IL 146, 147, 149, 150, 151, 153, 148.

much worn and perforated at one end, found in tumulus at same place, in 1876 ; (**178**) bronze buckle, 3¼ in. long, ornamented with circular pattern—Deposited by Prof. Macpherson of Eigg, 1878 and 1882. (See also Section BN.)

IL 179-181. From Orkney, viz.—(**179**) portion of hilt-end of iron sword, of Viking form, 9 in. long; (**180**) portion of iron spear-head; (**181**) iron

IL 157.

axe-head, 5½ in. long, found in digging in ruins of ancient structure at Lamaness, Sanday—Col. D. Balfour, 1878.

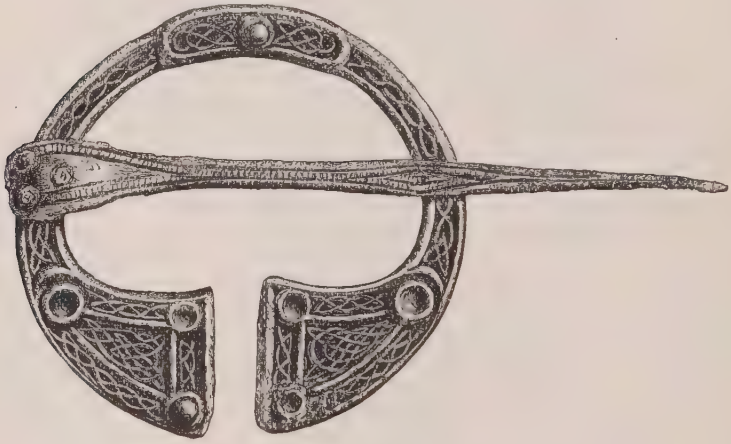
IL 182-189. From Orkney, viz.—(182-184) pieces of iron and wood; (185) small iron sickle; (186) iron key, pierced at top; (187) iron knife; (188) gilt bronze knob of sheath, curiously ornamented; (189) small ball of clay, from grave on Links of Pierowall, Westray—James Farrar, 1855.

190. Portions of Iron Boss of Shield, from tumulus in Orkney.

191, 192. Iron Sword and Boss of Shield, from Sweindrow, Rousay, Orkney—Prof. T. S. Traill, 1870.

193, 194. Bronze Cheek-ring of Bridle, 4¼ in. dia., and iron rivets, found in grave (in 1841) in Sands of Gill, Westray—Col. D. Balfour, 1863.

195, 196. From Graves at Pierowall, Westray, viz.—(195) portions of iron sword, with cross guard; (196) iron spear-head, imperfect, 10¼ in. long—Col. D. Balfour, 1863.



IL 198.

197-201. From Westray, viz.—(197) oval bowl-shaped brooch; (198) penannular brooch of bronze, with flattened ends, ornamented with interlaced panels; (199) iron boss of shield; (200) iron axe-head; (201) spear-head of iron, 8 in. long, all found in grave at Pierowall—William Rendall, 1851.

202-208. From Sandhill at Pierowall, viz.—(202-205) bones of leg of horse; (206-207) iron buckles, 3 and 2 in. dia.; (208) portions of wood and rivets of iron—James Farrar, 1864.

209. Cylindrical Hollow Piece of Iron, from grave at Dunrobin Castle, Sutherlandshire—Duke of Sutherland, 1854.

210. Iron Spear-head, found beside cist at Watten, Caithness—R. MacAdam, 1871.

211-213. From Orkney, viz.—(211) iron spear-head, imperfect, 2¾ in. long; (212) iron buckle; (213) portions of round-backed comb of bone, found with ashes and burnt bones in tumulus at Lyking—Prof. T. S. Traill, 1870.

214. Silver Mounting of Drinking-horn, 2¾ in. dia., from Burghead, Elginshire—Lady Dick Lauder, 1862.

IL 214, 138, 216, 221.

IL 215, 216. Pair of Oval Bowl-shaped Brooches, found in Islay—Col. Campbell, 1788.

IL 222.

217, 218. Oval Bowl-shaped Brooches, found in 1837 in cist at Langhills, near Wick—James Henderson, 1875.

IL 224.

219, 220. From Tiree, viz.—(219) oval bowl-shaped brooch, $4\frac{1}{2} \times 2\frac{3}{4} \times 1\frac{1}{2}$ in., with outer shell; (220) bronze pin, $6\frac{3}{4}$ in. long, with open lozenge-shaped head—Dr Norman Macleod, 1872.

221. One of Pair of Oval Bowl-shaped Brooches, with perforated outer shell, ornamented with figures of horses' heads, found with skeleton in tumulus at Castletown, Caithness, along with jet ring (FN 2) and bone pin—James Traill, 1787.

222–224. From Shetland, viz.—(222, 223) oval bowl-shaped brooches; (224) trefoil brooch of bronze, found in grave at Clibberswick, Unst—*Lerwick Collection.*

225, 226. Bracelets of Silver, viz.—(225) of spirally-twisted wire with

IL 230.

globular endings; (226) penannular ring, $2\frac{3}{4}$ in. dia., the end hammered thin, locality unknown—*Advocates' Collection.*

IL 227-229. Three Ingots of Silver, from hoard found at Cuerdale—Andrew Wilson, 1871.

IL 231.

230-235. Dressing Comb of Bone and Bone Case for the Comb, small whetstone of sandstone, $2\frac{7}{16} \times \frac{5}{16}$ in., with perforation at one end, iron spear-

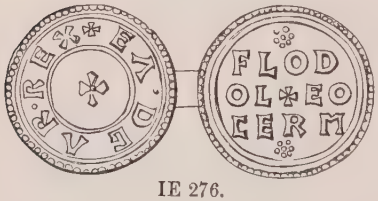
IL 267.

head, $15\frac{1}{2}$ in. long, blade of iron knife, with portion of wooden sheath attached to blade, and fragments of bones and iron, from grave in Links of Skaill, Orkney—W. G. T. Watt, 1888.

IL 236-271. Hoard of Silver Objects, from Burray, Orkney, viz.—(**236-266**) bracelets of silver, and a small straight bar of the same; (**267-269**) neck-ring of twisted silver strands with hooked ends, three coins and portions

IL 272.

of three others, and portion of the wooden dish in which the hoard was contained; (**270**) neck-ring of twisted strands of silver, broken into fragments; (**271**) large number of fragments of armlets—Treasure Trove, Deposited 1889.



IE 276.

272-281. Four Penannular Armlets of Silver, and Six Silver Pennies, one a penny of Edgar (959–975 A.D.) and five of Louis le Begue (877–879 A.D.), from Tarbat, Ross-shire—Treasure Trove, Deposited 1889, 1892.

282-312. Silver Ornaments, &c., from Skye, viz.—(**282**) neck-ring of spiral pattern, without ends; (**283**) terminal portion of penannular brooch, with punched ornament; (**284**) terminal portion of penannular brooch, with interlaced ornament; (**285**) portion of flat penannular bracelet with double row of circular punch marks; (**286**) portion of thin, flat band, ornamented with four rows of punch marks; (**287-289**) portions of hammered silver; (**290-304**) portions of ingots, cut into short lengths; (**305-308**) coins of Nasr Ibn Ahmad, 913–942 A.D.; (**309-312**) coins of Athelstan, 925–941 A.D.—Treasure Trove, Deposited 1891.

VIKING PERIOD.

[From England and Scandinavia.]

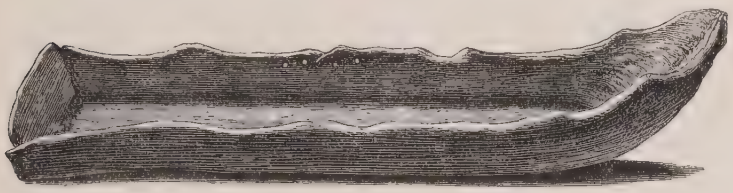
In Floor Case in Wing, East End of First Floor.

IM 1-8. Viz.—(**1**) oval bowl-shaped brooch, one of two found with skeleton, near Northallerton, Yorkshire—Thomas Blews, 1836; (**2, 3**) oval bowl-shaped brooches, found in tumulus near Christiania, Norway—Robert Carfrae, 1878; (**4**) oval bowl-shaped brooch, from Viking grave at Haukadal, near Christiania—Joseph Anderson, 1874; (**5**) oval bowl-shaped brooch, with perforated outer shell, from Denmark—Royal Society of Northern Antiquaries, 1849; (**6-8**) one circular and two horse-head shaped brooches, from Jutland—Horace Maryatt, 1864.

CANOES.

In Wing, East End of Ground Floor.

IN 1-3. Viz.—(1) oak canoe, found in digging at Springfield, on the Clyde, near Glasgow—Clyde Trust, 1848 ; (2) oak canoe, 12 ft. long, found in Castle Loch, Closeburn, Dumfriesshire—Mrs Baird, 1860 ; (3) half of canoe,



IN 2.

$22\frac{1}{2} \times 5$ ft., pierced with holes for fourteen oars, and having its prow carved into the likeness of an animal's head, found in Loch Lotus, Kirkcudbrightshire—Mrs Hyslop, 1875.

CANOES.

[From other Countries.]

Above Wall Cases on Second Floor.

IO 1-2. Viz.—(1) Malay canoe, 13 ft. long, scooped out of trunk of tree, with paddle—Captain John Thomson, 1828 ; (2) carved model of canoe used for a chief's burial, from New Zealand.

SKULLS OF ANIMALS, &c.

[Chiefly from Peat Mosses, Marl Beds, &c.]

On Wall on North Side of Ground Floor.

IR 1-65. Viz.—(1-2) skull with horn-cores, and (2) pelvis of ox (*Bos longifrons*), from moss at Kinneil, Linlithgowshire—Dr Walter Adam, 1849 ; (3) skull with horn-cores of large ox (*Bos primigenius*), from Roxburghshire —Thomas Scott, 1782 ; (4) skull with horn-cores of ox (*Bos primigenius*), from marl pit at Whitmuirhill, near Selkirk—Rev. Thomas Robertson, 1781 ; (5) skull with horn-cores of *Bos primigenius*, from marl of loch of Breckigo, Thrumster, Caithness—F. S. B. Innes, 1870 ; (6) skull with horn-cores of *Bos primigenius*, from moss in Galloway—Rev. D. M'Robert, 1782 ; (7) part of skull and portions of horns of red deer (*Cervus elaphus*), dug up at Craigcrook Farm, near Edinburgh—James Muirhead, 1781 ; (8) horns and portion of skull of *Cervus elaphus*, found under roots of tree in Meadows, Edinburgh—James Cumming, 1781 ; (9) skull and horns of *Cervus elaphus*, from marl bed at Strathmore, Perthshire—

IR George Ogilvy, 1781 ; (**10**) horns and portion of skull of *Cervus elaphus*, from Cree River, Wigtownshire—Dr Arthur Mitchell, 1863 ; (**11**) horn of *Cervus elaphus*, from Cockenzie, East Lothian ; (**12–14**) fragments of lower jaw of beaver (*Castor fiber*), from marl of Marlie's Loch, Coupar-Angus—Dr Farquharson, 1788 ; (**15**) horn of left side of reindeer (*Cervus tarandus*), from bog in Rousay, Orkney—Dr Arthur Mitchell, 1872 ; (**16**) horns and portion of *Cervus elaphus*, from Rowenstone, Wigtownshire—The Earl of Stair, 1881 ; (**17**) skull and horns of elk (*Cervus alces*), from Whitrig Bog, Berwickshire—Dr John Alexander Smith, 1871 ; (**18**) fragment of horn of *Cervus elaphus*, from Joppa—William Lowson, 1882 ; (**19**) skull of the brown bear (*Ursus arctos*), found in peat at Shaws, Dumfriesshire—Purchased 1875 ; (**20**) horns and skull of fallow deer (*Cervus dama*)—*Petrie Collection ;* (**21–27**) bones from Morbhaich Mor, Tain, viz.—(**21**) frontal of *Bos longifrons ;* (**22**) tine of reindeer (*C. tarandus*) ; (**23**) jaw of dog ; (**24**) fragment of jaw ; (**25–27**) fragments of leg-bones of ox—Rev. J. M. Joass, 1869 ; (**28**) horn found in moss, near Bingscarth Firth—Patrick Wood, 1837 ; (**29, 30**) horns of elk (*Cervus alces*), and of *Cervus elaphus*, from Cree, Wigtownshire—Rev. George Wilson, 1883 ; (**31**) large horn of *Cervus elaphus*, from barrow, near Elphinstone Tower, East Lothian—James Vernon, 1849 ; (**32–34**) horns, localities unknown ; (**35**) fragment of lower jaw of *Bos longifrons*, from Wideford Hill, Kirkwall—G. Petrie, 1849 ; (**36–40**) ox-horns, from moss at Lochlundie, Slains, from 6 to 16 ft. under the surface—James Dalgarno ; (**41**) metatarsal bone of urus (*Bos primigenius*), from Whitrig Moss—James Curle, 1877 ; (**42**) right femur of raven (*Corvus corax*), from Old Lock, Dundas, Linlithgow—Dr J. A. Smith ; (**43**) vertebra of *Cervus elaphus*, from Nitshill, Paisley—Purchased 1883 ; (**44**) right metacarpus of *Bos longifrons*, locality unknown ; (**45**) pelvis of large ox (*Bos primigenius*), locality unknown ; (**46–60**) horns and fragments of bones of deer (*Cervus elaphus*), &c., from Loch Dundas—Dr J. A. Smith, 1880 ; (**61–64**) limb-bones of deer, found with others in marl at Kinloch, Perthshire—Dr William Farquharson, 1785 ; (**65**) left horn of Irish elk (*Megaceros Hibernicus*), locality unknown.

SKULLS OF ANIMALS, &c.

[From other Countries.]

IS 1–7. Viz.—(**1**) skull and horns of the Irish elk (*Megaceros Hibernicus*)—*Bell Collection ;* (**2–7**) teeth and fragments of jaws of *Bos* (sp. ?), &c., locality unknown.

ECCLESIASTICAL.

BELLS OF IRON AND BRONZE.

The Old Celtic Bells in Floor Case, South Side of First Floor ; the others in Floor Case, North Side of Ground Floor.

KA 1. Quadrangular Iron Bell, found in Knowe of Saverough, Birsay, Orkney—James Farrar, 1863.

2. The "Bell of St Fillan," of cast bronze, quadrangular, and with double-headed dragonesque handle. It lay on a grave-stone in the old churchyard at Strathfillan, Perthshire, where it was superstitiously used for the cure of insanity and other diseases, till 1798, when it was removed by a traveller to England. It was returned to Scotland in 1869, and deposited

KA in the Museum by Lord Crawford and the Bishop of Brechin, with consent of the Heritors and Kirk-Session of St Fillans.

KA 1, 2.

3. Quadrangular Iron Bell, from Kingoldrum, Forfarshire—Rev. J. O. Haldane, 1851.

4–6. Viz.—(4) small quadrangular iron bell, and (5) its case of bronze, ornamented with figure of crucifixion in high relief; also (6) bronze chain and cross, found in 1814 at Torrebhlaurn, Kilmichael-Glassrie, Argyllshire — John Macneill, 1827.

KA 19.

7. Quadrangular Iron Bell, $3\frac{3}{4} \times 2\frac{1}{2}$ in., from Perthshire—*Sim Collection.*

8. Bronze Bell, $3 \times 3\frac{1}{2}$ in., with figures in relief, the Temptation and the Crucifixion, between which is shield and initials G.L. —Alexander Weir, 1783.

9. Portion of large Bronze Bell, found in ruins of Aberbrothock Abbey, Forfarshire, bearing in relief the letters ORE STC✠ —Treasure Trove.

10. Bronze Bell, inscribed in relief "GIFTED . BE . DONALD . MACKENZIE . OF . MEDAT . TO . THE . CHURCH . OF . LOGIE . EDR : 1696 ; I.M.," found at Rosemount, near Tain, Ross-shire—Mr Murray, 1858.

KA 11, 12. Small Bronze Bells, viz.—(**11**) square-shaped, 2½ in. high, the other (**12**) round, 2 in. high, found near Linlithgow Palace—Treasure Trove.

13-15. Circular Bells of Cast Metal, viz.—(**13**) of brass, 5¼ in. high, with handle, formed of group of figures, locality unknown; (**14**) 2½ in. high, ornamented in relief and bearing Latin inscription, from Kirkwall; (**15**) 2¼ in. high, from Paisley—*Sim Collection.*

16-17. Round Bells of Bronze, 2⅜ in. high, locality unknown.

18. Bronze Covering of Early Celtic Bell of Iron, from moss at Monybuie, near Dalbeattie—Dr W. G. Dickson, 1892.

19. Bell of Cast Bronze, 8½ in. high, from Little Dunkeld, Perthshire—Deposited by Rev. James Mackenzie, 1889.

BELLS OF IRON AND BRONZE.

[From Ireland.]

In Floor Case, South Side of First Floor.

KB 1-13. Viz.—(**1-12**) square-shaped bells, from Ireland, viz.—(**1**) St Patrick's bell, of iron, coated with bronze, 10½ in. high, handle 3 × 2 in., mouth 7½ × 5½ in., tongue 9 in. long; (**2**) bell of St Columbkill, of iron, coated with bronze, 10⅜ in. high, wants handle, 8 in. across mouth, imperfect; (**3**) St Ninian's bell, of iron, coated with bronze, 9 in. high, wants handle, 6½ in. across mouth, imperfect; (**4**) St Ringan's bell, of iron, coated with bronze, 6½ in. high, handle 2½ × 1⅜ in., mouth 4¼ × 4 in.; (**5**) bell, of iron, coated with bronze, 8½ in. high, wants handle, 5½ in. across mouth, from Termon Moncan, Lough Derg; (**6**) bell, of iron, 5½ in. high, wants handle, 3½ × 2⅜ in. across mouth; (**7**) St Ruadin's bell, of cast bronze, 8½ in. high, handle 2½ × 1⅜ in., mouth 6¼ × 5½ in.; (**8**) St Bridget's bell, of cast bronze, 8 in. high, handle 3 × 2¼ in., mouth 5½ × 4 in.; (**9**) bell, of cast bronze, 5½ in. high, handle 2¼ × 2 in., mouth 3¾ × 3 in.; (**10**) bell, of cast bronze, 9 in. high, handle 4½ × 1⅜ in., mouth 8 × 5 in.; (**11**) round bell, 1⅜ in. high; (**12**) bell, 8¼ in. high, with straight handle—*Bell Collection;* (**13**) square-shaped bell of iron, 8½ in. high, from St Mary's Priory, Bridlington, Yorkshire—Purchased 1882.

PASTORAL STAVES.

In Floor Case in Wing, East End of First Floor.

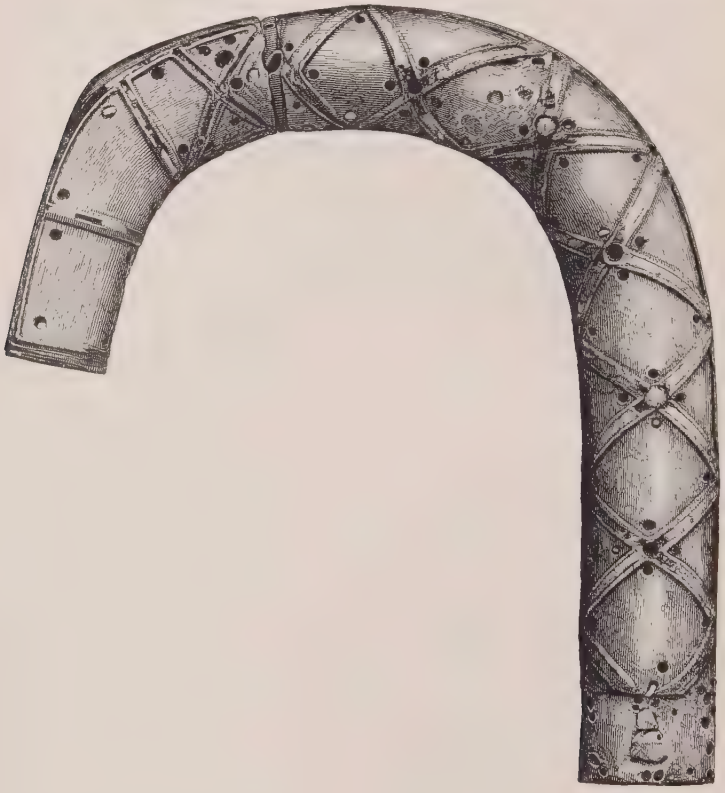
KC 1, 2. The Quigrich or Crosier of St Fillan of Glendochart, consisting of the crosier-head of copper, ornamented with bands of *niello*, and the silver-gilt casing of similar form, ornamented with filigree work, in which it was enclosed. The crosier, which has been in the possession of the family of Dewars, or hereditary keepers of the relic, since the time of Robert the Bruce, had been removed to Canada about 60 years ago, and was acquired by the Society of Antiquaries of Scotland in 1877 (through Sir Daniel

KC Wilson) from the present representatives of the family, Alexander Dewar of Plympton, in Canada, and his son and heir, Archibald Dewar, who also

KC 1.

gave a remission of a large proportion of the purchase price as a free contribution towards the acquisition for Scotland of a relic so remarkably associated with the national history.

KC 3. Portion of Head of Bronze Crosier, with enamelled dragonesque ornamen-



KC 2. The original Crosier-head.

tation, found near Hoddam Church, Dumfriesshire—*C. K. Sharpe's Collection*, Purchased 1851.

[From Ireland.]

In Floor Case, South Side of First Floor.

KD 1. Head of Bronze Crosier, 9 in. high, imperfect—*Bell Collection.*

CRUCIFIXES, RELIQUARIES, &c.

In Floor Case, North Side of Ground Floor.

KE 1-10. Viz.—(1, 2) crucifixes, viz.—(1) of silver, with letters A.F., found in St Magnus' Cathedral, Kirkwall—A. Henry Rhind, 1860; (2) of brass, with floriated ornamentation, and scroll INRI, from Dumfriesshire—Treasure

KE Trove, 1862; (3) silver-gilt reliquary, in form of locket, shaped like a Maltese cross, $1\frac{3}{4}$ in. long, ornamented with trefoils and quatrefoils, found at Threave Castle, Kirkcudbrightshire—David Douglas, 1880; (4, 5) reliquaries, viz.—(4) of brass, with figures in relief; (5) of silver-gilt

KE 7.

circular, $\frac{1}{2}$ in. dia., engraved with figure of *Agnus Dei* and IHS, from Dundee—E. W. A. D. Hay, 1854; (6) cast of supposed bronze crucifix, found in ruins of Arbroath Abbey—John Gordon, 1833; (7) crucifix of copper or bronze, enamelled in pale blue and light green, found in churchyard of Ceres, Fifeshire—Dr K. H. Macdonald, 1883; (8) crucifix, said to

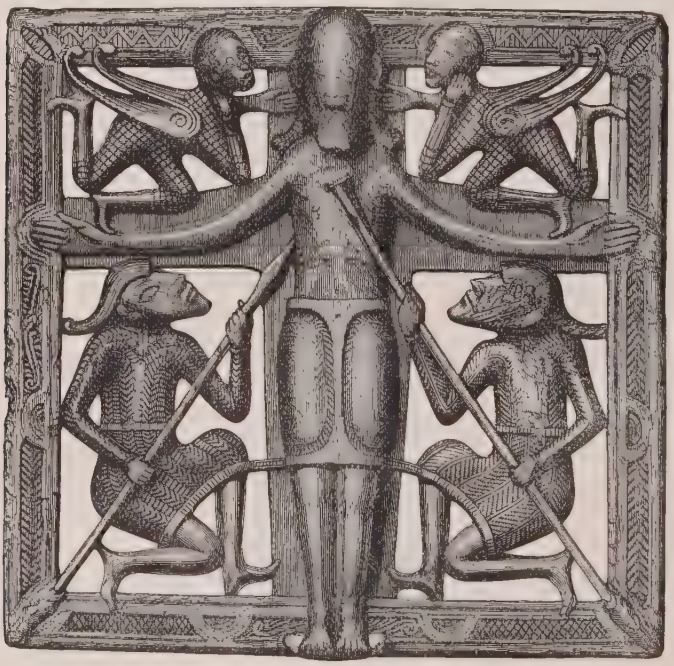
KE have been found near St Anthony's Chapel, Queen's Park, Edinburgh—Purchased 1884; (**9**) fac-simile of bronze figure of an ecclesiastic, 4 in. long, dug up at Holywood, Dumfriesshire—Purchased 1882; (**10**) reliquary of silver-gilt, enclosing four portions of cloth or leather of different textures, said to be from Kilrenny, Fifeshire—Robert Carfrae, 1890.

CRUCIFIXES, RELIQUARIES, &c.

[Other Countries.]

In Wall and Table Cases, North Side of Second Floor.

KF 1-38. Viz.—(**1**) silver crucifix, found in wall of castle, Newcastle—George Young, 1828; (**2**) silver crucifix, bearing on one side figure of Virgin and Child—



KF 13.

Bell Collection; (**3–6**) crucifixes, viz.—(**3–5**) of brass; (**6**) cast of silver crucifix, localities unknown; (**7–9**) from Ireland, viz.—(**7, 8**) rosaries, with crucifixes attached, sold to pilgrims at "St Patrick's Purgatory," Lough Derg, Donegal; (**9**) ivory crucifix; (**10, 11**) crucifixes of bronze, from Ireland, one ornamented with interlaced pattern; (**12**) large crucifix of brass, locality unknown; (**13**) bronze mounting, bearing representation of the crucifixion, with spear and sponge bearers, and figures of two angels,

KF from Dungannon—*Bell Collection;* (**14**) reliquary of brass, 4 in. long, ornamented with interlaced work, dug up in the Shannon—Professor

KF 14.

Duns, 1880; (**15–37**) rude wooden crucifixes, sold to pilgrims at "St Patrick's Purgatory," Lough Derg; (**38**) figure of Christ taken from Crucifix—*Bell Collection.*

SCULPTURES, CARVINGS, &c., IN STONE.

In Ground Floor Room.

KG 1. Sculptured Font, displaying Crucifixion, Virgin and Child, St Michael and the Dragon, and figure of bishop, with defaced inscription, from the ancient chapel of St Malrube, Loch Aoineard, Skye—A. A. Carmichael, 1870.

2. Font of Sandstone, 10¾ in. dia., one corner broken off, from Ardivot, Duffus, near Spynie—Purchased 1883.

4. Stone Head of Tonsured Priest, found in ruins of chapel, near Hawkshaw Tower, Peeblesshire—Rev. T. Mushet, 1783.

5. Sculpture in Alabaster of Christ before Pilate, found in ruins of convent of St Mary of Placentia, which formerly stood in Pleasance, Edinburgh—David Deuchar, 1781.

6. Figure of St John Carved in Limestone, dredged up in Firth of Forth—Professor T. C. Archer.

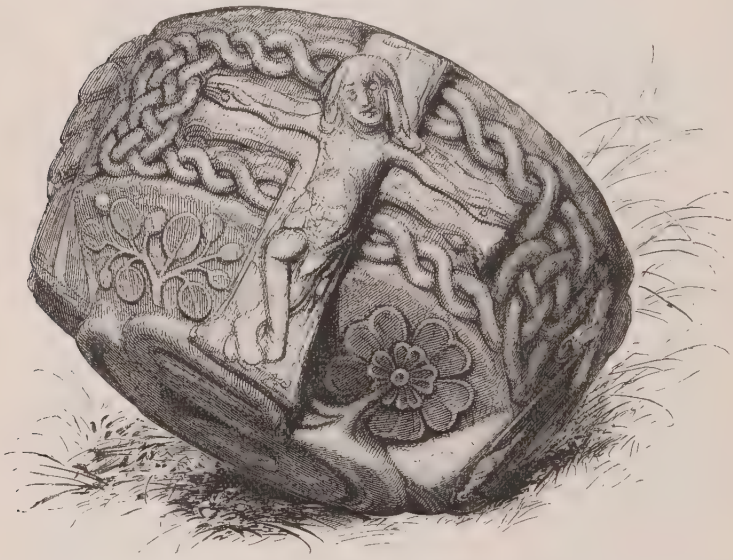
7. Cast of Stone, found among ruins of Dunfermline Palace in 1812, showing the "Annunciation," and shield with the armorial bearings of George Dury, abbot (1530–1561)—John Johns, 1861.

T

KG 8–9. Casts of two Sculptured Figures within niches, St Olaf and St Magnus, discovered in choir of Kirkwall Cathedral, Orkney—Andrew Kerr, 1850.

10. Cast of Sculptured Head with Three Faces, an emblem of the Trinity, from Kirkwall—A. Kerr, 1850.

11, 12. Casts from Shields displaying emblems of the Passion, viz.—(**11**) from Elgin Cathedral—George Robertson, 1832; (**12**) locality unknown.



KG 1.

13. Cast of Monogram on Shield, from pillar in Trinity College Church, Edinburgh.

14. Cast of fragment of Tombstone built into wall of old parish church of Turriff—James Wallace, 1864.

15. Cast of small Statue of Bishop Reid, at "Bishop's Palace," Kirkwall—A. Kerr, 1849.

16, 17. Casts from Chapter House, Arbroath, viz.—(**16**) from the front of altar tomb, displaying in high relief four figures within niches; (**17**) of shield bearing the arms (probably) of Abbot Panter (1411–1473)—Purchased 1851.

18. Cast from the Capital of Pillar in Kirkwall Cathedral, showing four dragons interlaced—A. Kerr, 1850.

19–21. From St Mary's Chapel, Rothesay, viz.—(**19**) figure of knight in stone, from front of tomb; (**20, 21**) casts of shields showing armorial bearings—J. Mackinlay, 1863.

22. Stone, displaying Shield with Armorial Bearings and Winged Figures, for supporters, found under pavement in Young Street, Edinburgh—Thomas Stevenson, C.E., 1860.

KG **26.** Head of Female in Sandstone, the hair braided in broad bands, from Linlithgow Palace—Treasure Trove, 1862.

27, 29, 30. Sculptured Human Heads, (**29**) from Iona.

31. Terminal Stone, showing six combined human heads.

33. Grotesque Corbel, locality unknown.

35. Finely-sculptured Group, representing death-bed scene, found in foundations of house at Mary King's Close, Edinburgh—Messrs Wyllie and Peddie, 1864.

37–39. Sculptured Ambries from Queen Mary of Guise's House, Blyth's Close, Edinburgh.

41. Sculptured Stones from house in Netherbow, Edinburgh, showing male and female bust, between which is the inscription in Gothic letters—IN . SUDORE . VULTUS . TUI . VESCERIS . PANE . TUO.

42. Stone showing Armorial Bearings, from old house in High Street, Edinburgh.

43. Lintel of Door from house in Gosford's Close, Edinburgh, with inscription—SOLI · DEO · HONOR · ET · GLORIA ·, and below, three shields; on the centre one is the crucifixion; on right, a merchant's mark between letters M.T.; and on left, boar's head couped with two crescents in chief.

44. Portion of small Column, from Broomhill, near Old Melrose, Roxburghshire—Dr J. A. Smith, 1856.

46. Cast of Inscription on house in Castle Hill, Edinburgh.

KG 6.

47. Portion of Stone Sun-dial, from Broughty Castle, Forfarshire.

49. Basin formed of Block of Red Sandstone, on sides are T.A., a tankard and drinking-cup, a rose, part of an ornament, and date 1660, found at Canonbie, Dumfries—George Maxwell, 1863.

50. Fragment of Stone Moulding, showing rose and letters IHS, from Orkney—Sheriff Thoms.

64. Cast of Stone built into the wall of John Knox's House, inscribed ΘΕΟΣ, DEVS, GOD—James Smith, 1850.

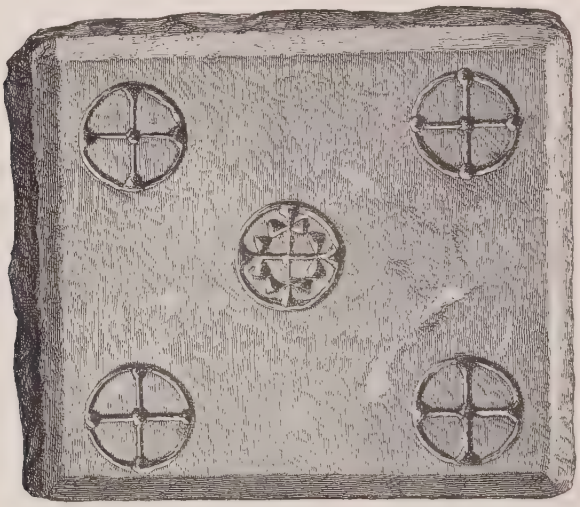
65–75. Fragments of Marble Tombs; and (**75**) crowned head in blue stone (defaced) from Dunfermline Abbey—Sir H. Jardine, 1820, Robert Chambers, 1846, P. Chalmers, D.D., 1870, and Rev. J. Fernie. (See also KJ 1, 2.)

76. Cast of Shield at Farnell Castle, Forfarshire, with the letters IHS—Andrew Jervise.

77. Cast of Shield bearing emblems of the Passion.

78. Altar Slab of Sandstone, 11 × 10 in., with five incised crosses in circles, from Coldingham—James Wood, 1879.

KG 79. Cast of Stone with Armorial Bearings, &c., on John Knox s house, Netherbow—James Smith, 1850.



KG 78.

80. Portion of Stone bearing undecipherable ornamentation, found near the Rashnach, Wigtownshire—Sir H. E. Maxwell, Bart., 1889.

81. Cast from Sculpture in Roslin Chapel, representing the Dance of Death—W. B. Johnstone, 1850.

82. Portion of Stone Moulding bearing the date 1680, from old house in Edinburgh—Purchased 1884.

SCULPTURES, CARVINGS, &c., IN STONE.

[Other Countries.]

KH 1-5. Viz.—(1, 2) stone vessels cut into divisions, styled "inkstands," from Ireland—Purchased 1855 ; (3) figure in marble of man on horseback, found in ruins of religious house in England—E. W. D. Hay, 1829 ; (4) figure in jet, $4\frac{3}{4}$ in. high, of St James the Greater, habited as pilgrim, probably a *signaculum*—J. T. Gibson Craig, 1875 ; (5) small figure of St James in jet, set in silver, I.H.S. engraved on back—Robert Carfrae, 1890.

MISCELLANEOUS.

In Floor Case, North Side of Ground Floor.

KJ 2. Portions of Cloth of Gold, from Dunfermline Abbey. (See KG 66–75.)

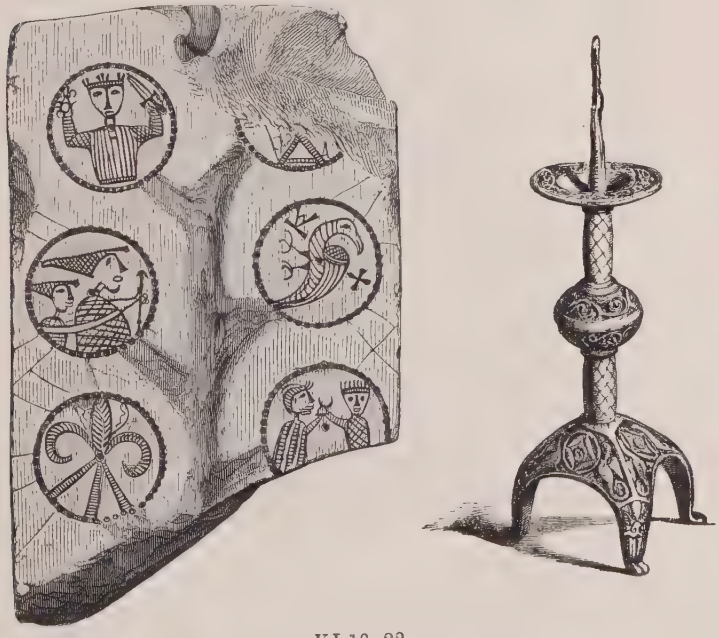
3–5. Portions of Painted or Stained Glass, viz.—(**3**) from Dunfermline Abbey—Rev. P. Chalmers, D.D., 1870; (**4**) from Lindores Abbey—Charles Lees, 1862; (**5**) from Melrose Abbey—Dr J. A. Smith, 1863.

6–10. Fragments of Glass, found in sacristy of church at Iona.

11–14. Sockets for Precious Stones, from Kirkwall Cathedral—Purchased 1878.

16. Circular Box (or Pyx) of Brass, found (filled with coins of Edward I. and II. and David II.) near Dalquharron Castle, Dailly, Ayrshire—T. F. Kennedy, 1828.

17. Cast of *Signaculum* of Horn, found in Kirkwall—J. W. Cursiter, 1882.



KJ 18, 22.

18. Half of Stone Mould for casting Leaden Tokens, found about 1843, at Dundrennan Abbey, Kirkcudbright—Deposited by Dr Robert Trotter, 1875.

19. Double Clasp and Chain for Cloak, engraved with representations of

KJ Crucifixion and Virgin and Child, found in ruins of Cistercian Nunnery, near Haddington—W. W. Hay, 1833.

20, 21. Punch and Token (1795) of Edinburgh Berean Church—James Bayne, 1874.

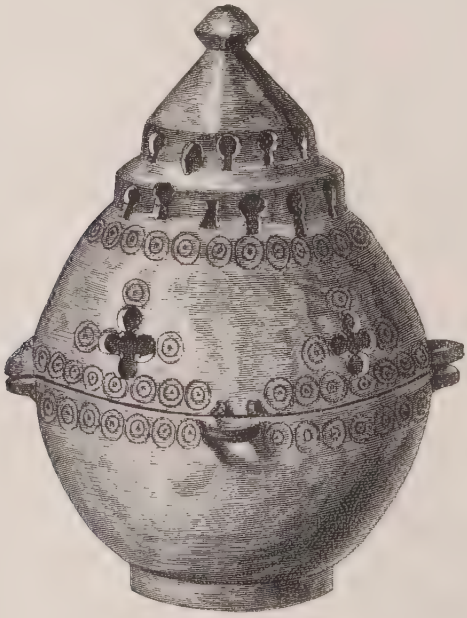
22. Altar Candlestick, found in digging foundation of parish church, Kinnoul, near Perth—Robert Mercer, 1860.

23. Head and Hand of Child in White Wax, found in walled-up niche in Queen Mary of Guise's House, Blyth's Close, Edinburgh—E. W. D. Hay, 1829.

24. Altar Candle of Wax, ornamented with foliage in relief—George Paton, 1782.

25. Leaden Seal of Papal Bull of Nicholas IV., from Chapel of Potie, Glenfarg—Alexander Laing, 1862.

26. Bronze Censer, 6 in. high, found under floor of old church of Garvock, Kincardineshire—Deposited by Rev. William Stephen, B.D., 1887.



KJ 26.

27. Piece of Bronze, inscribed IHS.

28–30. Fragments of Inscriptions in Lead.

31. Portions of Silk Tunic and Fringe, found in tomb of Bishop Dunbar in Glasgow Cathedral.

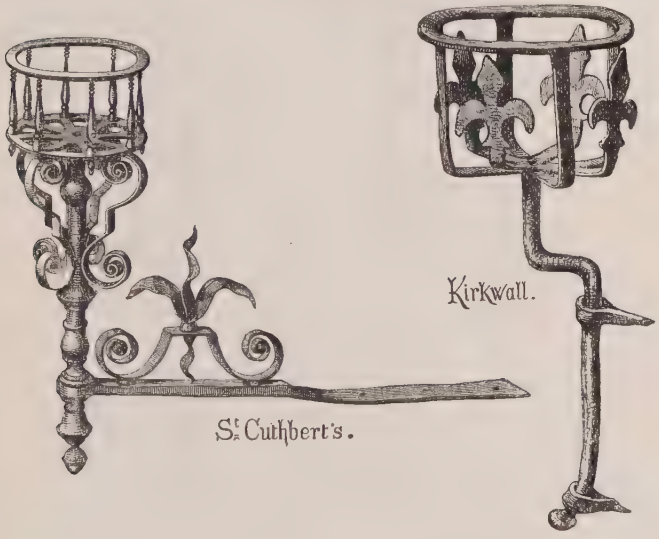
32–34. Portions of Robes and Crosier, found in tomb of bishop at Rosemarkie Cathedral, Fortrose—Sir George Mackenzie, 1822.

35. Portion of Embossed and Gilt Leather Hangings, from Culross Abbey, Perthshire—W. C. Trevelyan, 1835.

KJ 36. Pewter Church Door Plate—*Sim Collection.*

37–39. Church Sand-glasses, viz.—(**37**) from parish church of West Calder; (**38**) locality unknown—James Drummond, 1863; (**39**) from Bathgate Church.

40–42. Stands for Sand-glasses, viz.—(**40**) from St Cuthbert's Church, Edinburgh—Kirk-session, 1863; (**41**) from St Magnus Cathedral, Kirkwall—Colonel Balfour, 1863; (**42**) locality unknown.



KJ 40, 41.

43–45. Brackets of Wrought Iron for Baptismal Basins, viz.—(**43**) from Inveresk; (**44**) locality unknown—Purchased 1881; (**45**) from St Cuthbert's Church, Edinburgh—J. and P. Nimmo, 1869.

46. Bracket of Wrought Iron, from Aboyne, Aberdeenshire—Purchased 1883.

47. Piscina, from St Adamnan's Chapel, Forvie, Aberdeenshire—C. S. Temple, 1876.

48, 49. Collecting Plates of Brass, viz.—(**48**) with Adam and Eve in relief; (**49**) with St George and the Dragon.

50. Octangular Vase of Brass, 9 in. high, dug up near Traquair—Earl of Traquair, 1781.

51. Portion of Glass, from St Andrews Cathedral—A. G. Reid, 1880.

52. Collecting Ladle, from old parish church of Temple, Midlothian—Purchased 1881.

54–60. Iron Nails from Tombs, viz.—(**54**) from grave of Bishop Kennedy, St Andrews—Robert Chambers, 1846; (**55**) Dunfermline Abbey—Thomas Allen, 1831; (**56**) locality unknown; (**57–60**) from Kilbride, near Dunblane—J. Ferguson, 1853.

61–65. Relics, found in tombs in the cathedral at Kirkwall, viz.—(**61–63**) head of crosier in oak, and chalice and paten in wax, from tomb of Bishop Thomas Tulloch, 1461; (**64**) leaden plate, inscribed HIC REQUIESCIT

KJ WILELMUS SENEX, FELICIS MEMORIE, PRIMUS EPISCOPUS; (**65**) bone handle, probably of staff, found with bones of William, first Bishop of Orkney, 1102-1167—Treasure Trove, 1864.

66. Knife-handle of Carved Ivory, representing the sacrifice of Isaac, found at Culross—Purchased 1884.

KJ 66.—Obverse and Reverse.

67. Iron Pin, found in tomb in St Magnus' Cathedral, Kirkwall, with skeleton of female—Dr T. S. Traill, 1834.

68. Portion of Glass Vessel, found at Lindores Abbey, Fife—F. S. Anderson, 1871.

69. Hour Glass in Stand, from Forfarshire—Purchased 1885.

70, **71**. Collecting Plates of Brass, viz.—(**70**) bearing temptation of Adam and Eve; (**71**) with a deer—Purchased Gibson Craig Sale, 1887.

72, **73**. Fragments of Chalice and Paten of Lead, found in a grave in the churchyard of Bervie—Rev. J. Brown, 1883.

74. Portion of Wax Taper, found under causeway in quadrangle of Linlithgow Palace—Treasure Trove.

KJ 75. Church Collection Plate of Brass, 18 in. dia., inscribed BOT SCI MIR ANS, four times round a centre boss—Purchased 1890.

76. Iron Die or Stamp for Church Communion Tokens, TANNADICE CHURCH .. TABLE, found at Tannadice, Forfarshire—Purchased 1890.

77–83. Set of Communion Vessels in Pewter, viz.—(**77**) plate $16\frac{3}{8}$, in. dia., with Edinburgh pewterer's mark on bottom, and initials I.H.; (**78–81**) cups, each $8\frac{1}{8}$ in. high; (**82, 83**) flagons, each $10\frac{1}{4}$ in. high, one marked on lid I. H·⁘· MD.—Purchased 1890.

84–113. Communion Tokens of Parish of Fordyce, Banffshire, of eighteenth and nineteenth centuries—William Cramond, 1881.

114–611. Communion Tokens of various parishes in Scotland of seventeenth, eighteenth, and nineteenth centuries.

MISCELLANEOUS.

[From other Countries.]

In Table and Wall Cases on North Side of Second Floor.

KK 1–40. Viz.—(**1–22**) painted and stained glass, viz.—(**1–4**) from Lincoln Cathedral—D. Cottier, 1865; (**5–7**) from Sherborne; (**8–10**) from Ludlow, Shropshire; (**11–15**) probably from Lichfield; (**16**) specimen of old leading, from Bath Abbey—J. T. Irvine, 1880 and 1882; (**17–18**) from St Paul's, Rome; (**19–21**) from Rheims—Dr D. H. Robertson, 1863; (**22** from Cathedral of St Canice, Kilkenny, Ireland—D. W. Kemp, 1889; (**23–26**) leaden seals from Papal Bulls, viz.—(**23**) of Clement VIII.—*Bell Collection*, Purchased 1867; (**24**) of Alexander III.; (**25**) of Innocent IV.; (**26**) of Celestine V.; (**27**) bronze incense-burner, dug up in Norgate Street, London—Marquess of Breadalbane, 1846; (**28**) electrotype fac-simile of bronze spoon, handle representing figure with child in each arm, from Norway; (**29**) bronze altar vessel, from Ireland; (**30**) iron mould—*Bell Collection;* (**31**) piece of Limoges enamelled work, locality unknown; (**32–35**) ivory tablets, viz.—(**32, 33**) with carvings of Holy Family, Crucifixion, Adoration, &c.—Purchased 1882; (**34, 35**) with carvings of Holy Family and Crucifixion—one by Miss Christian Clark, 1783; (**36**) Roundel of Stained Glass, from York.

37–39. Tablets of Ivory, two with human figures, third with pillar surmounted by cock.

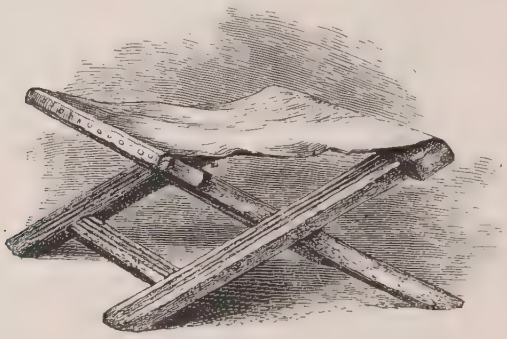
40. Ornament of Brass, gilt, from chapel in Tower of London—Marquess of Breadalbane, 1846.

WOOD CARVINGS, &c.

Principally on Walls of Ground Floor.

KL 1–81. Viz.—(1) old oaken pulpit, said to be from St Giles' Church, Edinburgh—R. Johnston, 1826; (**2**) pulpit of carved oak, dated 1598, from old parish church of Parton, Kirkcudbright, inscribed FEIR THE LORD AND HONOUR HIS HOUS.—Rev. H. A. Patullo, 1865; (**3**) folding campstool dated 1565, asserted by the donor to have been "used in the High Kirk of Edinburgh by Jenny Geddes."—J. A. Watson, 1818; (**4**) portion of cornice in oak, on which is cut in relief 16. FOR. THE. CRAIG. END. 56., from pew in South Leith Church—Dr D. H. Robertson, 1862; (**5**) oval

KL shield, with arms of Incorporated Trades of Dalkeith, and WE LIVE BY GOD'S PROVIDENCE, from front of gallery in parish church, Dalkeith, Midlothian ; (**6**–**13**) carvings in oak, viz.—(**6**) the Nativity ; (**7**) the Descent from the Cross—*Bell Collection ;* (**8**) the Resurrection ; (**9**) expulsion of money changers from the Temple—J. H. Sanderson, 1864 ; (**10**) creation of Eve ; (**11**–**13**) fragments—*C. K. Sharpe's Collection,* Purchased 1851 ;



KL 3.

(**14**) carved pew-back, with Drummond Arms, and date 1598, from Abercorn Church—Mrs Morris, 1876 ; (**15**) portion of oak panel, with emblems of the Passion, from stalls of St Magnus' Cathedral, Kirkwall—P. Neill, 1805 ; (**16**) oak cabinet, richly carved on three sides, panels of the doors showing male and female heads, from Priory, Pittenweem, Fifeshire —Right Rev. David Low, D.D., 1854 ; (**17**) mahogany stile of door, from Old Assembly Rooms, West Bow, Edinburgh ; (**18**) lectern or reading-stand of oak ; (**19**, **20**) circular panels of carved oak, 28 in. dia., supposed to represent James V. and his queen, Mary of Guise, from Stirling Castle—Bequeathed by Dr David Laing, 1880 ; (**22**–**35**) casts of other circular panels, with busts and floral borders, carved in oak, from the ceiling of the Parliament Chamber, Stirling Castle—Purchased ; (**36**, **37**) carved oak panels, the Drummond Arms impaling the Royal Arms of Scotland, debruised with the bar sinister, &c., inscribed INITIUM SAPIENTIAE EST TIMOR DOMINI—*C. K. Sharpe's Collection,* Purchased 1851 ; (**38**) oak door, from house of Mary of Guise, in Blyth's Close ; (**40**) painted lid of a chest, from Nunraw House—Robert Hay, 1880 ; (**41**–**43**) from Amisfield Castle, viz.—(**41**) oak door, carved with subject of David or Samson rending the jaws of the lion, and armorial bearings of Charteris family, and date 1600 ; (**42**, **43**) carved oak posts of old state bed—Rev. James Charteris, 1861 ; (**44**) Royal Arms and supporters, in carved wood, gilt, time of George III., from Council Chambers, Edinburgh ; (**45**–**47**) portions of painted ceiling, from house of Mary of Guise, in Blyth's Close—Directors Commercial Bank, 1845 ; (**48**, **49**) carved oak panels, with dragonesque ornamentation—Purchased 1883 ; (**50**) carved oak window frame and shutters, from old house in Water Lane, Leith, known as "Mary of Guise's House"—James Heddle, 1875 ; (**51**) oak window-frame and shutters, forming lower half of window, from old house in Cowgate, called the French Ambassador's House, Edinburgh—Purchased 1851 ; (**52**, **53**) ambry doors, viz.—(**52**) with Virgin and Child in relief ; (**53**) with initials I.D.V.K. and date 1653, also in relief ; (**54**) image of female in oak, 57 in. high, found in peat moss at Ballachulish, Nether Lochaber—Rev. J. R. A. Chinnery-Haldane, 1881 ; (**55**) wooden

KL figure, formerly over shop door in West Bow, Edinburgh—Miss Burns, 1846 ; (**56**, **57**) panels, viz.—(**56**) with shield of arms surmounted by coronet, and below the letters C.I.P. ; (**57**) with scroll ornamentation ;

KL 38.

(**58**) oval shield, with masonic emblems, inscribed THE HAND OF THE DILIGENT MAKETH RICH—William Kinghorn, 1867 ; (**59**) portion of panel showing adoration of Magi ; (**60**) oak panel, scroll pattern ; (**61**) carving in oak of the Royal Arms of Scotland, from Linlithgow Palace—*C. K. Sharpe's Collection,* Purchased 1851 ; (**62**) window-frame and

KL shutters from old house in Edinburgh ; (**63**) large carved oak door with panels and cornice, from Mary of Guise's House, Water Lane, Leith—*C. K. Sharpe's Collection*, Purchased 1851 ; (**64**) portion of panel, displaying bunches of grapes, from Mary of Guise's House, Blyth's Close ; (**65**) fragment of carving, showing rampant lion, &c. ; (**66**) carving, showing ornamentation and four scenes ; (**67**) grotesque head of man ; (**68–72**) painted panels of scriptural subjects, from ceiling of great hall, Dean House, Edinburgh—*C. K. Sharpe's Collection*, Purchased 1851 ; (**73**) box cut out of solid piece, 8 × 3 in., used as charter box by Barons of Bachul of Lismore—Alexander Carmichael, 1870 ; (**74**) small box cut out of one piece of wood, the surface carved and inscribed—

IN MY DEFENS GOD ME DEFEND
AND BRING MY SAVL TO ANE GOOD END

with other verses of similar description, and the initials D.K.—Purchased 1883 ; (**75**) carved oak chair—*Sim Collection ;* (**76**) carving in oak, with shield of arms, from Muness Castle, Unst, Shetland—Mrs Margaret Craigie, 1884 ; (**77**) panel, with carved open tracery, *fleur-de-lis*, &c. ; (**79**) oak panel with foliaceous scrolls—John Holmes, 1882 ; (**80**) carved panel of bed-door, with initials AG. B ∇ I and date 1757, from Forgieside, Keith—*Linn Collection ;* (**81**) carved wooden chair, said to have come from Linlithgow Palace—*Linn Collection ;* (**82**) casts of carvings in ivory, book covers, diptichs, mountings, &c., mostly with ecclesiastical and scriptural subjects—Deposited by Royal Scottish Academy.

WOOD CARVINGS, &c.

[From other Countries.]

On Ground Floor.

KM 1, 2. Viz.—(1) wooden figure of Virgin and Child ; (2) head of winged cherubim in oak, from Colchester—Dr D. Wilson, 1863.

ARMS AND ARMOUR.

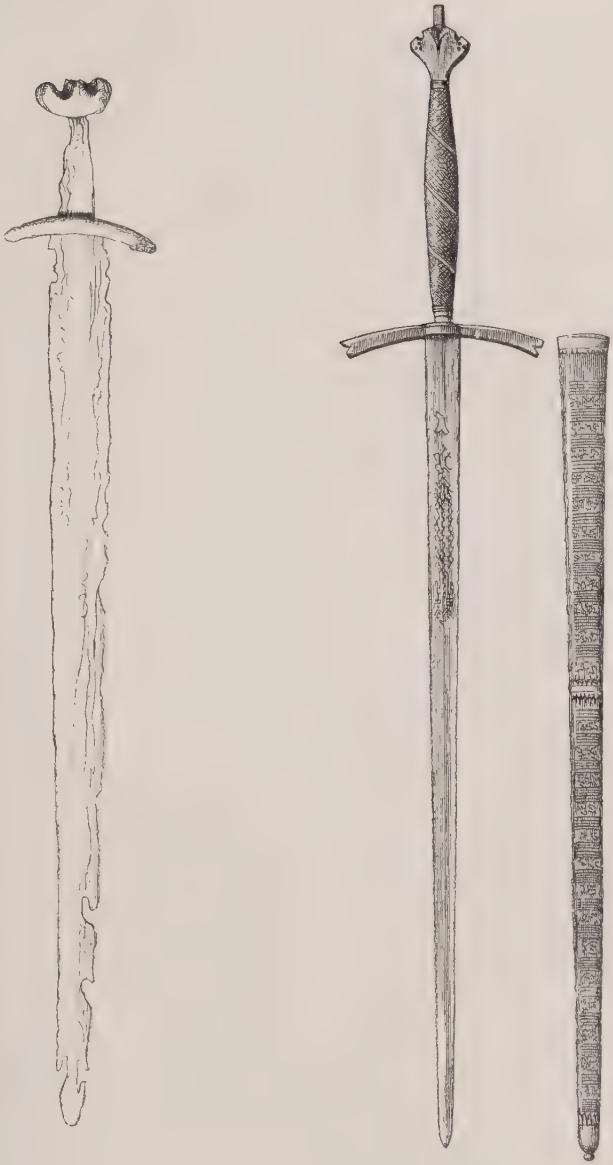
SWORDS.

In Pillar Cases and on Wall of Ground Floor.

LA 1. Sword, with double-edged blade 30½ in. long, trilobed pommel, and recurved guard, inlaid with silver, found in cutting the Strathspey Railway, near Gorton, Elginshire—Treasure Trove, 1864.

2. Sword, with double-edged blade 34½ in. long, rounded pommel, and reversed guard.

3–11. Two-handed Swords, viz.—(3) sword blade, point imperfect, with tang ; (4) with rounded pommel and reversed guard—*Sim Collection ;* (5) with rounded pommel and reversed guard, said to have belonged to the Lindsay family—Hon. Lord Murray, 1851 ; (6) with straight guard, handle covered with black leather, blade 47 in. long—Mr Wight, 1781 ; (7) blade, with tang, point imperfect, 57½ in. long—William Creech, 1782 ; (8) with reversed guards, blade 43 in. long, handle 13 in.—Archibald Ramsay, 1785 ; (9) with fluted blade, hemispherical guards and tang of handle, in sheath ; (10) blade, 45 in. long, with reversed guard, grip covered with skin ; (11) blade, 48 in., with ornamental guard and wooden handle.



LA 1, 45.

LA 12-40. Basket-hilted Swords, viz.—(**12**) with fluted blade, showing running animal and ANDREA FERARA, said to have belonged to officer of dragoons in reign of Queen Anne—R. Bald, 1828; (**13**) with fluted blade, hilt imperfect; (**14**) with narrow fluted blade, inscribed ANDRIA FARARA; (**15**) blade fluted, inscribed ANDREA FARARA—Purchased 1883; (**16**) plain, with wooden handle, hilt imperfect; (**17, 18**) Highland swords, with scabbards, inscribed ANDREA FERARA; (**19**) with fluted blade, 33¾ in. long, inscribed ANDRIA FERARA; (**20**) with fluted blade, 33½ in. long, inscribed ANDRIA FERARA; (**21**) with fluted blade, 33¼ in. long, inscribed ANDRIA FERARA, and letter W repeated 16 times; (**22**) 32 in. long, fluted blade, hilt imperfect, inscribed ANDRIA FARARA—all *Sim Collection*; (**23**) sword, with blade, 32¼ in. long, the blade inscribed IN . TI . DOMINI—Purchased 1886; (**24**) Highland sword, with large basket-hilt, 32½ in. long—Purchased 1882; (**25**) cutting sword, with fluted blade, 28¼ in. long—Purchased 1883; (**26**) 33 in. long, made in Solingen, blade fluted; (**27**) 29½ in. long, inscribed with crown and letters G.R. IEF RIS—*Bell Collection;* (**28**) 34½ in. long, inscribed ANDRIA FARARA; (**29**) 32 in. long, with ornamented hilt; (**30**) 32 in. long, inscribed + 1 · 4 · 1 · 4 ×; (**31, 32**) with fluted blades, 33 and 33½ in. long; (**33**) with fluted blade, 37 in. long, with figure of running wolf and letters SH; (**34**) Andrea Ferara blade, 35 in. long; (**35**) broadsword, 32¾ in. long, point imperfect, on one side of blade the Arms of Earl of Argyll, and date 1543, on other, hand holding dagger and motto, now illegible, found in moss at Polkemmet, Whitburn, Linlithgowshire—William Baillie, 1849; (**36**) 34¾ in. long, inscribed SAHAGON; (**38**) with fluted blade, 20 in. long, inscribed ANDREA FARARA; (**39**) with Andrea Ferara blade, 35 in. in length—Purchased 1883; (**40**) with shagreen handle, blade broken, found at Prestonpans—Purchased 1882.

41, 42. Old Naval Cutlasses, with straight blades, viz.—(**41**) *Bell Collection;* (**42**) *Sim Collection.*

43, 44. Old Cavalry Swords and Scabbards.

45. Two-handed Sword, 8 ft. 5 in. long, said to have belonged to Sempill family as hereditary Sheriffs of Renfrew—Maria Janet, Baroness Sempill, 1884.

46-57. Miscellaneous Swords, viz.—(**46**) curved, with wooden handle and iron guard—Purchased 1849; (**47**) with blade, 32⅛ in. long, waved edge, said to be from ruins of Boghall Castle, Biggar, Lanarkshire—John Loch, 1829; (**48**) cut and thrust sword, blade 35 in. long; (**49**) with wooden handle similar to plug bayonet; (**50**) double-edged, with reversed guard, wooden handle, blade 34½ in. long, from peat-moss at Stirling Bridge—Purchased 1886; (**51**) short, straight sword, with plain open-work iron basket-hilt, blade 25 in. long—Purchased 1887; (**52**) with curved blade, showing male figure and CAMELUS; (**53**) curved, with ivory handle and brass guard; (**54**) curved, with various devices, inscribed RUNKET JOHANGEN; (**55**) Highland broadsword, blade 30 in. long, wooden handle—Purchased 1885; (**56**) basket-hilted, blade 36 in. long, wooden handle—Purchased 1887; (**57**) cut and thrust, blade 35 in. long.

58. Andrea Ferara sword, with ornamental basket-hilt, blade 33½ in. long, with silver mounted scabbard—Purchased 1887.

59-66. Short Swords and Hunting-knives, viz.—(**59, 60**) hunting-knives—*Sim Collection;* (**61**) with scabbard; (**62**) with brass guard and bone handle—Robert Bald, 1849; (**63, 64**) with stag-horn handles; (**65, 66**) hunting-knives.

67-71. Rapiers, viz.—(**67**) with guard, dated 1616; (**68, 69**) with brass guards and pommels; (**70, 71**) with iron guards and pommels.

LA 72–75. Basket-hilts of Swords, viz.—(**72**) dug up on battle-field of Prestonpans—J. Ferguson, 1840 ; (**73, 74**) imperfect ; (**75**) richly chased with floral patterns and inlaid with silver—Purchased 1882.

SWORDS.

[From other Countries.]

In Floor and Wall Cases, West End of Second Floor.

LB 1–20. Viz.—(**1**) basket-hilted sword, found in river Shannon, at head of Keelsay Falls—Rev. J. Jaffray, 1851 ; (**2**) hunting-sword, English, with silver-mounted handle, and scabbard ; (**3, 4**) sword, with brass guard and tang of handle, (**4**) sword-handle and portion of blade, with reversed guard, dug up in Isle of Man ; (**5, 6**) portions of two swords, with recurved guards, viz.—(**5**) dug up at Ballaugh, Isle of Man, (**6**) dug up in churchyard of St Maughold, Isle of Man—J. R. Oswald, 1824 ; (**7**) sword, broken, with iron pommel and portion of guard, found on Flodden Field—Robert Scott, 1787 ; (**8–11**) sword handles of brass, formed in shape of animal's heads—*Bell Collection ;* (**12**) Venetian basket-hilted sword, with broad blade, 33 in. long—Purchased 1882 ; (**13**) curved sword, with wooden handle and spherical pommel, guard broken—*Bell Collection ;* (**14**) hunting-knife, with brass handle, back serrated—*Bell Collection ;* (**15**) sword-blade, 39½ in. long, attached to iron gauntlet, from India ; (**16**) Albanian sword (seventeenth century), with curved blade 28¼ in. long, wooden handle, brass mounted, and scabbard—*Sim Collection ;* (**17**) sword, with broad blade, guard in shape of cross, of seventeenth century ; (**18–20**) from *Meyrick Collection*, viz.—(**18**) rapier, with plain, ball-shaped pommel, open-work basket-hilt, straight quillons with curved ends, blade 38½ in. long, inscribed IAN BROCH on each side ; (**19**) rapier, with basket-like hilt, and long, straight quillons, blade 39½ in. long ; (**20**) sword, with engraved pommel, guard pierced with stars and small round perforations, thumb ring, blade 36 in. long, inscribed SAHAGOM on each side—C. J. C. Douglas, 1890.

DAGGERS, DIRKS, &c.

In Floor Cases on North Side of Ground Floor.

LC 1. Large Highland Hunting-knife, with tang, 18½ in. long—Purchased 1883.

2–7. Daggers, viz.—(**2**) with iron handle—*Sim Collection ;* (**3**) with wooden handle, brass mounted ; (**4**) with ivory handle, silver mounted, found on body of Captain Thurot, the French privateer, when washed ashore at Luce Bay, 1760—G. C. Cunningham, 1864 ; (**5**) with bone handle and grooved blade, from Sheriff Moor—A. B. Cobbold, 1860 ; (**6**) with wooden handle ; (**7**) finely-carved ivory handle of hunting-knife, bearing a shield with three lions, the blade does not belong to the handle—James Drummond, R.S.A., 1877.

8. Dagger, 16¼ in. long, blade triangular in section, from Mouswald, Dumfriesshire—Charles Carruthers, 1889.

9–11. Blades of Triangular Section, with screws at the butt ends, engraved, viz.—(**9**) said to have been found on Culloden Moor; (**10**) found at Walton,

LC West Linton, Peeblesshire—W. Forbes, 1863; (**11**) 7 in. long, inlaid with gold, from Gairloch, Ross-shire—Sir H. Mackenzie, 1860.

12. Highland Dirk, 17⅛ in. long, with carved and brass-mounted handle—Purchased 1883.

13–22. Highland Dirks, with carved handles of interlaced work, viz.—(**13**) with brass-mounted sheath and side sheaths for knife and fork—*Sim Collection;* (**14**) 16½ in. long, handle finely carved with pattern of interlaced

LC 14.

work, blade inscribed on one side A SOFT ANSUER TOURNETH AWAY WRATH, and on other THY KING AND COUNTRIES CAUSE DEFEND THOUGH ON THE SPOT YOUR LIFE SHOULD END, back of blade pierced and ornamented towards handle with brass border engraved with scroll pattern—James Drummond, R.S.A., 1877; (**15**) with broad-backed blade; (**16**) with blade formed from rapier—John Cameron, 1877; (**17**) with silver-mounted sheath and side sheaths for knife and fork, and having silver mounting of open pattern at top of handle; (**18, 19**) with sheath; (**20, 21**) with carved handles—Purchased 1882; (**22**) with guard and brass-mounted sheath.

23, 24. Highland Dirks, viz.—(**23**) with brass handle, found on farm of Mains of Brux, Aberdeenshire—Treasure Trove, 1854; (**24**) with deer-horn handle.

25. Brass-mounted Carved Handle of Highland Dirk.

26, 28. Daggers, viz.—(**26**) double-edged blade with tang of handle; (**28**) 13⅜ in. long.

31. Knife-shaped Dagger—*Bell Collection.*

32. Dagger, 17¾ in. long, with interlaced brass-mounted handle and sheath—Purchased 1889.

33. Dirk, with carved wooden handle, copper mounted, blade 14 in. long—Purchased 1885.

34. Old Highland Dirk, brass mounted, 14¼ in. long, with inscription on scabbard—Purchased 1885.

35. Highland Dirk, 18 in. long, with carved handle and brass mounting—Purchased 1886.

36. Highland Dirk, 16⅞ in. long, silver mounted, with carved handle, scabbard, knife, and fork—Purchased 1887.

37. Highland Dirk and Sheath, 17½ in. long, with carved interlaced handle, brass mounted, the blade made from an Andrea Ferara sword-blade—Purchased 1887.

38. Highland Dirk and Sheath, 16 in. long, with carved handle, blade made from old sword—Purchased 1887.

39. Highland Dirk, 18½ in. long, handle carved with interlaced patterns, brass mounted—Purchased 1887.

40. Highland Dirk and Sheath, 15⅝ in. long, handle elaborately carved with interlaced work, brass mounted, blade stamped with crown and letters G.R.—Purchased 1887.

LC 41. Highland Dirk, 15⅞ in. long, mounted with silver, top set with rock-crystal, sheath silver mounted, and having knife and fork silver mounted and set, one with crystal, the other with cairngorm—Purchased 1888.

42. Highland Dirk, 19¾ in. long, with interlaced handle and brass mounting, from Sauchie, Stirlingshire—Mrs Herdman, 1888.

43. Highland Dirk, 18½ in. long, with engraved blade, knife, fork, and sheath—Purchased 1888.

44. Small Blade of Dirk—Purchased 1888.

45. Highland Dirk, with rude scabbard, mounted with pewter—Purchased 1888.

DAGGERS, &c.

[From other Countries.]

In Wall Case, North Side of Second Floor.

LD 1, 2. Daggers, viz.—(1) with wooden handle like plug bayonet; (2) triangular-shaped, 7 in. long, with screw—*Bell Collection.*

3. Dagger of Cast Iron, made for the Irish Rebellion, 1797—Purchased 1882.

4. Stiletto, brass mounted, in wooden sheath covered with leather—James Chisholm, 1888.

LONG-SHAFTED WEAPONS.

On Walls, &c., on Ground Floor.

LE 1–76. Viz.—(1–5) Lochaber axes, viz.—(1, 2) used by Old Town Guard,

LE 5, 1, 3.

Edinburgh—Town Council, 1849; (3, 4) used by Edinburgh Town

LE Guard ; (**5**) of unusual form, without hook—Magistrates of Dunbar, 1828 ; (**7–13**) halberts, viz.—(**7**) from Aberdeen ; (**8**)—*Sim Collection ;* (**9–10**) formerly used by Old Town Guard—Edinburgh Town Council, 1849 ; (**11**) time of Queen Elizabeth—Board of Ordnance, 1849 ; (**12, 13**) unknown ; (**14**) scaling-ladder hook ; (**15**) bill, time of Henry VI.—Board of Ordnance ; (**16**) ranseur with reversed barbs ; (**17**) gisarme, probably of sixteenth century, blade ornamented ; (**18–21**) partizans, viz.—(**18**) with long blade and barbs, time of Henry VI.—Board of Ordnance : (**19, 20**) pair, with richly engraved blades, each bearing word CHURMAINTZ (probably German)—Miss Walker, 1843 ; (**21**) small, plain ; (**22, 23**) boar-spears, one with a broad two-edged head, the other with a pointed head—Dr D. R. Robertson, 1865 ; (**24, 25**) lances (of 17th Lancers), one with pennon, carried by the donors through the Crimean War—David Black and Sergeant Macgregor ; (**26–31**) pikes and spears—Board of Ordnance, Dr Robertson, Mr Hutchison, &c. ; (**39–57**) spear-heads, &c., viz.—(**39**) with socket, 13 in. long, dug up in Dublin ; (**41**) 12½ in. long ; (**42**) pike-head, 14¾ in. long—*Sim Collection ;* (**43**) ferrule, 3¾ in. long, from Yieldshields, Carluke—J. Gilchrist, 1852 ; (**44**) bronze spear-head with portion of shaft ; (**45–48**) spear-heads—*Sim Collection ;* (**52**) 5 in. long, from Hunthills, Roxburghshire—R. Dalyell, 1800 ; (**54, 55**) found in moat of the Tower of London ; (**56, 57**)—unknown ; (**58–61**) arrow or bolt heads, viz.—(**58**) from Craigmillar Castle ; (**59, 60**) from Lochmaben—Dr R. Clapperton, 1785 ; (**61**) from Flodden Field—E. W. A. D. Hay ; (**67**) pike-head of "Friends of the People," from Kilsyth—Miss Walker, 1841 ; (**69**) circular boss, probably of a shield ; (**70–74**) pike-heads, viz.—(**70**) found on clearing out the moat of the Tower of London ; (**73**) made by John Orrock, Water of Leith, at the time of the "Friends of the People"—Miss Walker, 1841 ; (**74**)—*Bell Collection ;* (**75**) spear-head of iron, 17¼ in. long, socket open on one side, from Mouswald, Dumfriesshire—Charles Carruthers, 1889 ; (**76**) axe-head of steel, one side engraved with floral designs, &c., the other bearing representation of candle-lighting scene, from Mediæval Romance of Virgil, the haft modern, from *Meyrick Collection*—C. J. C. Douglas, 1890.

BANNERS AND FLAGS.

On Wall, West End of Ground Floor.

LF 1-7. Viz.—(**1**) pennon of regiment of cavalry, raised by Lord Cardross in 1688, with hand displayed with spear, boar's head impaled, coronet, and in upper corner thistle—Earl of Buchan, 1781 ; (**2, 3**) Covenanters' flags, viz.—(**2**) displaying white saltire, with roses in the centre, and the inscription "FOR RELIGION, COVENANTS, KING AND KINGDOMES," said to have been carried at battle of Bothwell Brig, 1679, and again in 1745, by corps of volunteers in Edinburgh—Christopher Mowbray, 1796 ; (**3**) of pink and blue silk, displaying white saltire, Scotch thistle in centre, and inscription FOR RELIGION, COVENANTS, CROVNE AND KINGDOMES—Purchased, Johnstone's Sale, 1869 ; (**4**) banner with saltire in upper corner, thought to be original "Blue Blanket," from City Chambers, Edinburgh—Town Council, 1850 ; (**5**) flag of blue silk, with saltire crossing the field, said to have been the standard of Colonel Scott's regiment, and carried at Battle of Dunbar, 1650—Sir A. Edmonstone, 1864 ; (**6**) flag of white silk, with blue saltire, thistle in centre, and motto "NEMO ME IMPUNE LACESSET," a thistle in second, third, and fourth corners, dated 1716—A. J. D. Brown ; (**7**) flag of embroidered silk, yellow, with Union Jack in centre, within wreath of rose, thistle, and shamrock, are initials

LF G.R., above NEMO ME IMPUNE LACESSIT, on other side, arms of Glasgow surrounded by wreath of thistle and rose, with motto LET GLASGOW FLOURISH, in upper part of field, 1st REGIMENT, GLASGOW VOLUNTEERS—Purchased 1884.

BOWS AND CROSS-BOWS.

On Wall, East End of Ground Floor.

LG 1-13. Viz.—(**1-4**) long-bows of yew, 60 and 66 in. long, three tipped with horn; (**5**) cross-bow, from Craigmillar Castle—Purchased 1860; (**6-11**) cross-bows, variously mounted, one with inlaid stock—Presented by William Douglas, 1850; (**12**) large rude bow of a cross-bow, found with "bag of arrows," under moss on Farm of Clinterty, Aberdour, Aberdeenshire—Alexander Murray, 1862; (**13**) steel cross-bow, with lever fitted to the stock, inscribed BOLTON PRESTON—James Paterson, 1889.

FIRE-ARMS.

In Floor Cases, North Side of Ground Floor and in Wing.

LH 1-22. Old Flint-lock Pistols of Steel, &c., viz.—(**1**) with scroll-ended butt, with silver inlay and engraved scroll-work, inscribed *Alex. Campbell;* (**2**) with scroll-ended butt, with silver scroll-inlay, silver plate on butt bearing motto ALTERA MERCES, below, star—*Sim Collection;* (**3**) with scroll-ended butt, brass barrel, with silver inlay, silver plate bearing motto ALTERA MERCES, found in wall of old cottage, Glenhead, near Doune—Purchased 1884; (**4**) with lobate-ended butt, with silver inlay, initials I.D. inlaid in silver, and initials I.A.M.K. engraved—John M'Nellie, 1884; (**5**) with rounded butt, with silver inlay and engraved scroll-work, inscribed ALEX^{R}. MURDOCH; (**6**) with scroll-ended butt, with engraved scroll-work, &c., inscribed *John Murdoch*—Purchased 1885; (**7, 8**) pair, with scroll-ended butts, and initials A.C.—Purchased 1849; (**9**) with scroll-ended butt, lock slightly ornamented—John Menzies, 1839; (**10**) with scroll-ended butt, with engraved scroll-work and silver inlay, inscribed *John Campbell;* (**11**) with scroll-ended butt, with silver inlay and engraved scroll-work, inscribed *Alex^{r}. Campbell, Duni fecit;* (**12**) with scroll-ended butt, with silver inlay and engraved scroll-work, inscribed *Alex^{r}. Campbell, Doun fecit;* (**13**) with scroll-ended butt, with engraved scroll-work and silver inlay, inscribed *Jo. Murdoch;* (**14, 15**) pair with rounded butts, ornamented with engraved scroll-work, &c., inscribed T. MURDOCH; (**16, 17**) pair, of brass, with rounded butts, steel works, with engraved scroll-work, &c., inscribed T. MURDOCH—all purchased 1885; (**18**) of brass, with rounded butt, steel works, engraved, inscribed T. MURDOCH—Purchased 1884; (**19**) with globular butt, much corroded, partly ornamented with brass inlay—James Chisholm, 1880; (**20**) with scroll-ended butt, minus lock, with engraved scroll-work, interlaced work, and trophies of arms—Purchased 1885; (**21**) with scroll-ended butt, unornamented, inscribed CHRISTIE; (**22**) with scroll-ended butt, with engraved patterns and silver inlay, inscribed I.A.M.K—Purchased 1885.

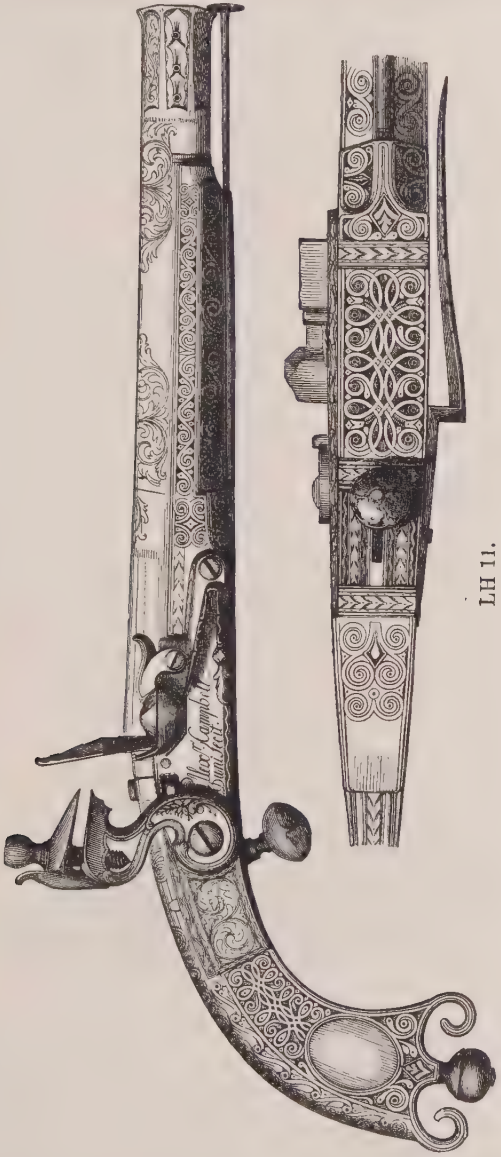
23. Revolving Pistol, stock inlaid with ivory, stamped on lock with initials P.D., hand, two stars, said to have been found in old building at Loch Rannoch—James Dawson.

LH 24, 25. Pair large Double-barrelled Pistols with Flint-locks, inscribed BLAIR,

LH 6.

LONDON. which formerly belonged to Robert Burns, the Poet—Bishop Gillis, 1859.

LH 26-33. Flint-lock Pistols, viz.—(**26**) small, with engraved brass mountings



LH 11.

and ornamented with silver inlay, minus lock ; (**27**) with steel mountings and ornamented barrel, inscribed RANCHI—Purchased 1884; (**28**, **29**)

LH ship pistols—Dr D. R. Robertson, 1865; (**30**) small pistol, imperfect; (**31**) large horse pistol, inscribed IORDAN 1743 and GR under crown—*Sim Collection;* (**33**) small pistol of iron.

34–43. Muskets, &c., viz.—(**34**) double-barrelled gun, with silver inlay, swivel gun, one hammer serving both barrels—Charles Reoch, 1872; (**35**) musketoon; (**36, 37**) blunderbusses, with brass barrels and flint-locks, lock-plates engraved BLYTH, formerly used on shipboard—Dr D. H. Robertson, 1867; (**38**) flint-lock musket, inscribed D. ALLEN—*Sim Collection;* (**39, 40**) army muskets, inscribed TOWER and GR under crown, on barrel SOUTH FENCIBLE—J. C. Wright, 1877; (**41–43**) muskets used by Old Town Guard, Edinburgh—Two by Town Council, 1849.

50–213. Viz.—(**50–62**) wheel and flint locks of old muskets; (**63–168**) gun-locks and portions of gun-locks—Thomas Bryce, gunmaker, 1860; (**169–180**) specimens of gun-flints—John Dickson & Sons, 1872; (**181–192**) gun-flints; (**193**) musket-rest of seventeenth century; (**194**) small flint-lock of pistol—*Linn Collection;* (**195, 196**) pair Highland flint-lock pistols, with lobate-ended butts, elaborately ornamented with incised ornamentation, with the initials K. M^{c}K on a silver plate, made by T. MURDOCH—Purchased 1886; (**197**) small pistol, with silver-mounted wooden butt, made by ALEX^{R}. MARTIN, PAISLEY—T. Bonnar, 1886; (**198**) flint-lock pistol with brass stock and steel barrel, ornamented with scroll engraving, &c.—Purchased 1886; (**199**) small flint-lock pistol of steel with wooden stock (lock imperfect), made by JOYNER, LONDON—Miss Grieve, 1886; (**200**) flint-lock pistol of steel, with silver inlaid butt, the barrel, &c., ornamented with floral scrolls and other ornamentation, with silver plate bearing three feathers and the words ICH DIEN, made by T. MURDOCH—Purchased 1886; (**201**) flint-lock pistol of steel, with silver inlay, floral scrolls, &c., imperfect, made by *Alex^{r}. Campbell*—Purchased 1886; (**202**) long-barrelled flint-lock steel pistol, inlaid with silver, scroll-ended butt, made by THO. CADDELL—Purchased 1888; (**203**) flint-lock pistol of steel, scroll-ended butt, made by BISSETT—Purchased 1888; (**204–213**) small cannon, &c., viz.—(**204**) of brass,

LH 212.

inscribed in relief JACOBUS MONTEITH ME FECIT EDINBURG ANNO DOM. 1642, found on battlements of Bhurtpoor, India, when stormed by British in 1826—Captain Carmichael, 1829; (**205**) of brass, 15 in. long, ornamented with figures in relief, dated 1675—W. W. Hay Newton, 1860; (**206**) with four iron barrels formed of tubes on which are projecting rings, each with leather covering, mounted on one axle—Robert Bryson, 1850; (**207**) with two barrels, constructed of hoops and

LH staves on modern carriage, from Wemyss Castle—W. B. Johnstone, 1850 ; (**208**) single barrel, formed of hoop and staves, and partially covered with copper—Purchased 1849 ; (**209**) model of "Mons Meg," in iron, on wooden carriage, copied from sculptured lintel in Edinburgh Castle—J. Mackinlay, 1860; (**210**) carronade, dated 1781 ; (**211**) howitzer of about end of seventeenth century, 16½ in. long, 7½ in. dia., found near Hawick—A. J. Donaldson, 1876 ; (**212**) iron "pierrier," or movable chamber of cannon, found in interior of north-east tower, Broughty Castle—Lieut.-Col. R. C. Moody, R.E., 1856 ; (**213**) iron cannon with movable chamber, found in the sea at Aberdeen—Joseph Robertson, 1857.

FIRE-ARMS.

[From other Countries.]

In Wall Case on Ground Floor and at West End of Second Floor.

LJ 1-22. Viz.—(**1**) pistol, wheel-lock inlaid with silver—Sir William Douglas, R.S.A., 1854 ; (**3–7**) gun-locks, viz.—(**3–5**) gun-locks and portion of barrel, partially melted from the ruins of the Armoury Tower, London, after the fire—T. B. Johnstone, 1849, and George Berry, 1854 ; (**6**) from ruins of Kremlin after the fire—A. Fraser, 1828 ; (**7**) of unusual shape—*Bell Collection ;* (**8**) brass-mounted horse pistol, with flint-lock and brass plate on which is coronet, and below it initials P.S., made by "WERNER DROOGBRO, UTRECHT"—A. Dods, 1863 ; (**9–17**) muskets, viz.—(**9**) with carved butt, minus lock, inlaid on barrel in silver letters NVAVA FABRICA DI CANNA A MOGLIA DOPIA ; (**10**) Russian percussion musket, with bayonet, from the Crimea—William Drysdale, 1860 ; (**11**) matchlock, with four revolving barrels, richly engraved, from India—Purchased 1867 ; (**12**) antique Swedish hunting-piece, with ivory inlay, engraved with hunting-scenes—John Dundas, 1807 ; (**13**) Indian matchlock, richly painted and inlaid with gold, with spring bayonet ingeniously attached—Purchased 1849; (**14–16**) Sikh matchlocks, taken at Gujarat, two with damascened barrels, the third with bronzed barrel inlaid with gold—George B. Robertson, 1860 ; (**17**) matchlock with case for match—J. G. Dalzell, 1798 ; (**18**) brass swivel-gun (fifteenth century), 38¼ in. long, bore 1 in. dia., found in Lough Neagh, Ulster—*Bell Collection ;* (**19, 20**) two old flint-lock brass-barrelled ship's pistols, with spring bayonets attached to muzzle, inscribed *Wheeler*, wooden stocks and iron works—Purchased 1886 ; (**21, 22**) pair of large pistols, with silver stocks finely engraved, from *Meyrick Collection*—C. J. C. Douglas, 1891.

POWDER-HORNS.

In Floor Cases, North Side of Ground Floor.

LK 1-37. Viz.—(**1–19**) flattened powder-horns, ornamented with interlaced work and scroll patterns, viz.—(**1**) bearing on inner edge "SECK . ME . NOT . I . PRAY . THE . MY . MESTER . VIL . DENEY . THE . FAT . LES . APRYL 4 . YEAR . OF GOD 1694 . AND . BOOY . FEAR . GOD . IN . HEAT." — Robert Jardine, 1872 ; (**2**) with zigzag ornamentation—J. B. Greenshields, 1867 ; (**3**) with zigzag ornaments, initials T.H., crown, and date 1722 ; (**4**) ornamented with circular and scale-like patterns, and initials A.R.—Purchased at Johnstone's Sale, 1869 ; (**5**) mounted with lead, and bearing initials I.B. and A.G., and date 1676—A. Jervise, 1855 : (**6**) found on the battlefield of Sheriffmuir—David Laing, 1865 ; (**7**) 14½ in. long, engraved

LK on one side with figures engaged in chase, and on other with interlaced work and monogram; (**8**) 11 in. long, flat, with scrolls and interlaced work, initials G.R., and date 1685; (**9**) 6 in. long, flat, with floriated ornamentation, and date 1708; (**10**) 8¾ in. long, with floral scrolls in relief—

LK 14, 27, 28.

James Drummond, 1877; (**11**) engraved with interlaced patterns—Robert Carfrae, 1880; (**12**) richly engraved, and dated 1682, with initials D.M.C.—*Sim Collection;* (**13**) with ornamental patterns, thistle, human faces, and date 1672—Purchased 1877; (**14**) with ornamental patterns, animal's heads, initials C.M.L., and date 1678—Purchased at Johnstone's

LK Sale, 1869; (**15**) engraved on one side, with group of military arms, and with stag on other—Purchased 1879; (**16**) ornamented with circles of interlaced work and geometrical patterns, and initials D.M., and date 1669—Purchased 1882; (**17**) large, plain—Purchased; (**18**) carved horn—Purchased; (**19**) ornamented with geometrical patterns, and bearing a representation of house—Purchased; (**20–23**) rounded powder-horns, viz.—(**20**) flask-shaped, 12½ in. long, with brass mountings; (**21**) 11½ in. long, with mountings of iron—James Drummond, R.S.A., 1877; (**22**) 17 in. long; (**23**) 16 in. long, with raised band in centre—*Sim Collection;* (**24**) flat powder-horn, 15 in. long, ornamented on one side with interlaced patterns, &c., and inscribed D.G., 1680, A.C., 18 MC 38—Purchased 1883; (**25**) flat powder-horn, 15¾ in. long, ornamented with geometrical patterns, and inscribed G.A., from Aberdeenshire—Purchased 1883; (**26**) old powder-flask of leather—*Sim Collection;* (**27–30**) flattened powder-horns, viz.—(**27**) 10 in. long, with shield of arms, interlaced patterns, and inscribed I.F. 1672; (**28**) 8½ in. long, with interlaced patterns, lion and unicorn, and inscribed W.S. 1783; (**29**) with ornamental patterns, inscribed I.L. 1695; (**30**) small, plain, with wooden bottom—Purchased 1883; (**31**) flat pear-shaped powder-flask of horn, brass mounted—Purchased 1884; (**32**) small powder-horn, rudely ornamented with incised zigzag lines, from South Uist—Purchased 1885; (**33**) powder-horn, flat, 13½ in. long, silver mounted, ornamented with geometrical patterns arranged in circles, and inscribed D MOON 1706—Purchased 1887; (**34**) powder-horn, flat, 8¼ in. long, rudely ornamented with incised patterns, dated 1721—Purchased 1887; (**35**) flat powder-horn, 10¾ in. long, engraved on one side with panels of Celtic interlaced work, and on other with pattern representing flat engraved brass brooch, mouth ornamented with pewter, found in ruins of Lochindorb Castle—Purchased 1888; (**36**) flat powder-horn, 11 in. long, mounted with pewter, one side ornamented with interlaced ornament and fancy patterns, and initials I.D., reverse side also partly ornamented, from Raws, Achindown, Banffshire—Purchased 1890; (**37**) flat Highland powder-horn, with interlaced ornament, &c., and date 1694, bottom of wood, from Aberdeenshire—Purchased 1891.

POWDER-HORNS.

[From other Countries.]

In Wall Case opposite Entrance Door on Second Floor.

LL 1–24. Viz.—(**1–7**) rounded powder-horns, from Norway, viz.—(**1**) with incised ornamentation, and marked OLAF . OLAFSON . ANO . 1687 and HARALD . IOHANSON . 1741—Purchased 1869; (**2**) 7¾ in. long, with twisted pattern, inscribed NILS . TORMOSON . &c.,—James Drummond, 1877; (**3**) 10½ in. long, ornamented in panels, with Adam and Eve, and tree, the seven champions of Christendom, and date 1751; (**4**) 7¾ in. long, with similar ornamentation, and the names OLAF STRANGSON and A. LAGMASSON—Joseph Anderson, 1874; (**5**) 8 in. long, with figures of twelve champions on horseback, in high relief, separated by inscribed band bearing names of warriors, Samson, Roland, Oliver, &c., and date 1773; (**6**) 10 in. long, with subject of Adam and Eve, serpent on tree, and Samson and Delilah, David and the lion, and Daniel and the dragon; (**7**) 9 in. long, stained red, carved in low relief with subjects similar to No. 6, and showing figures of heroes of Mediæval Romance, as Olger, Otuel, Roland, Burman, Tidrik, and others, all on horseback, and date 1729—James Drummond, R.S.A., 1877; (**8–12**) rounded powder-horns,

LL viz.—(**8**) 7¾ in. long, carved in relief with Adam and Eve and serpent as centre-piece, and figures of men with swords and axes, engaged in conflict with animals, from Italy ; (**9**) priming-horn, 6½ in. long, with mounting of brass—James Drummond, 1877 ; (**10**) brass-mounted, used by French Royalists at Quiberon, 1795—John Tingman, R.N., 1863 ; (**11**) 3½ in. long, silver-mounted, with initials G.D. ; (**12**) of ivory, 12 in. long, unfinished ; (**13, 14**) flask-like powder-horns, viz.—(**13**) 7 in. high, brass-mounted, inscribed on bottom "THIS FLASK BELONG TO GEORGE HOME OFF ST LEONARDS . 1686 "—Purchased 1868 ; (**14**) 5¾ in. high, with slight mouldings—James Drummond, 1877 ; (**15, 16**) horns, viz.—(**15**) flat powder-horns, on one side a figure of Bellona, on the other a group of warriors, and on the end initials W.R.P., and date 1673 ; (**16**) triangular piece of deer's horn carved with representation of Judgment of Paris—James Drummond, 1877 ; (**17**) carved powder-horn of ivory, set with amber (Persian)—Miss Gardiner, 1781 ; (**18**) steel powder-flask—Purchased 1886 ; (**19**) priming-horn for wheel-lock musket—Purchased 1886 ; (**20**) small priming-horn, carved with the crucifixion, the crowning with thorns, Christ bearing the cross, Christ before Pilate, the scourging, the kiss of Judas, &c.—J. Romilly Allen, 1888 ; (**21**) powder-horn, carved with subjects, from Charlemagne Romances and Old Testament—J. Romilly Allen, 1888 ; (**22–24**) small powder-horns, from Norway—Purchased 1890.

MISCELLANEOUS.

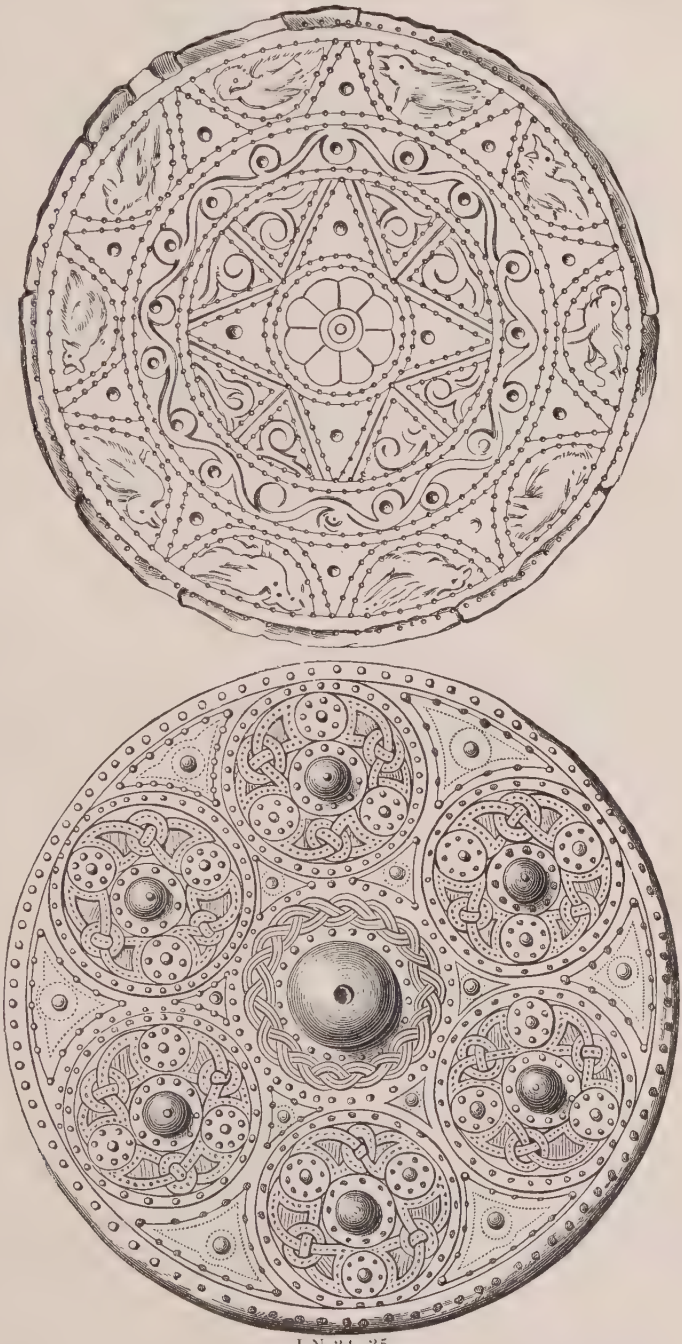
In Table Case and in Wing, East End of Ground Floor.

LM 1–19. Viz.—(**1–4**) iron caltrops, with spikes, 1¼ and 1¾ in. long, from West Calder and Jedburgh—Dr J. A. Smith, 1876 ; (**5–7**) lead bullets, viz.—(**5, 6**) from Rullion Green—James Jackson, 1848 ; (**7**) from Culloden Moor—Robert Chambers ; (**8, 9**) brass gorgets, with Royal Arms, viz.—(**8**) said to have been worn by Captain Edgar at Battle of Minden—John Menzies, 1839 ; (**9**) unknown ; (**10**) artilleryman's leather bucket, from Edinburgh Castle, dated 1725—James Shearer, 1861 ; (**11–18**) cartridge boxes and belts, viz.—(**11, 12**) used by the Old Town Guard—The Town Council, 1849 ; (**13**) belonged to the volunteers of the Old Trinity House, Leith ; (**14**)—*Sim Collection ;* (**15**) unknown ; (**16, 17**) of leather, and embroidered with sewed work ; (**18**) canteen of 24th Regiment ; (**19**) caltrop of iron said to have been found at Bannockburn—*Linn Collection.*

ARMOUR.

In Floor Case and on Walls, Ground Floor.

LN 1–40. Viz.—(**1–4**) demi-suits of armour, viz.—(**1**) time of Queen Elizabeth ; (**2**) cavalier's armour with gauntlets ; (**3**) pikeman's armour ; (**4**) time of Henry VIII.—Board of Ordnance, 1849 ; (**5–13**) front and back plates, viz.—(**5–10**) three pairs of steel, two with brass studs, the other pair French ; (**11**) steel front-plate ; (**12, 13**) front and back plates of iron ; (**14**) portion of plate armour for the leg ; (**16–21**) chain-armour, viz.—(**16**) found at Old Liston, Mid-Lothian, 1860 ; (**17–19**) unknown ; (**22–27**) helmets, viz.—(**22, 23**) steel morions of time of Queen Elizabeth ; (**24**) helmet of sixteenth century, converted into a closed mask —James Drummond, 1887 ; (**25, 26**) iron head-pieces with neck-guards—Earl of Buchan, 1781, and J. Campbell, 1883 ; (**27**) iron head-protector,



LN 34, 35.

LN time of Commonwealth, dug up at Perth—John Gillies, 1784 ; (**28–32**) gauntlets, viz.—(**28, 29**)—*Sim Collection ;* (**30, 31**) of iron—D. Robertson, 1865 ; (**32**) gauntlet of doeskin, lined with cloth and plated with iron, of seventeenth century ; (**33–40**) Highland targes of wood, covered with leather mostly studded with nail-heads, viz.—(**33**) 20 in. dia., ornamented with tooled patterns and brass studs, and having double eagle in centre, the cognisance of Macdonalds, Lords of the Isles—James Drummond, R.S.A., 1877 ; (**34**) 20 in. dia., having in centre rosette in four-rayed star, surrounded by two bands ornamented with scroll-work and nondescript animals—Purchased, Johnston's Sale, 1869 ; (**35**) 19 in. dia., with 6 circles of interlaced work, the spaces between filled by segmental plates, and in centre a socket for spike—*Bell Collection ;* (**36**) 20 in. dia., bearing two bands of scroll-work encircling four-rayed star, with brass bosses in angles—R. Gordon, 1805 ; (**37**) 19½ in. dia., studded with brass nails and with central boss—William Creech, 1782 ; (**38**) of black leather, 18½ in. dia., with circular bands of scroll-work, divided into square-shaped patterns—Purchased 1882 ; (**39**) 20 in. dia., with raised central boss and triangular plates of pierced brass ; (**40**) 19 in. dia., ornamented with two circles of thin brass, surrounded by eight-pointed star—both deposited by Durrant Stuart of Dalguise.

ARMOUR.

[From other Countries.]

On Wall of Ground Floor.

LO 1–8. Viz.—(**1–4**) portions of chain armour, found in moat of Tower of London—Marquess of Breadalbane, 1846 ; (**5–8**) helmets, viz.—(**7**) of iron, with visor and bevor, found near Ballymoney, Co. Antrim—George G. Cunningham, 1879 ; (**8**) head-piece of iron, with neck-guard—*Bell Collection ;* (**9, 10**) helmets of Lifeguards, with brass mountings—D. Robertson, 1865.

FLOOR TILES, &c.

In Floor Case, East End of Ground Floor.

LR 1–66. Viz.—(**1–3**) plain tiles, from St Magnus' Cathedral, Kirkwall—Robert Mathewson, 1849, David Balfour, 1863; (**4–6**) from Dunfermline Abbey—Rev. Dr Peter Chalmers, 1870, G. Robertson, 1881 ; (**7**) with dark-coloured pattern of *fleur-de-lis*, from Melrose Abbey—James Simpson, 1865 ; (**8, 9**) fragments, from Linlithgow Palace—Andrew Kerr, 1881 ; (**10, 11**) from Finhaven, Forfarshire, one with greenish glaze—Andrew Jervise, 1862 ; (**12**) with scratched pattern, 9½ in. square, from Lindores Abbey—A. Laing, 1880 ; (**13**) locality unknown ; (**14**) from Crichton Castle—Mr Fairgrieve, 1869 ; (**15–30**) glazed tiles, from North Berwick Abbey, viz.—(**15–19**) with raised figures of animals ; (**20–30**) with geometric and floral patterns—A. Richardson, 1847, &c. ; (**31–34**) Dutch glazed and ornamented tiles, from old houses in Edinburgh—Purchased 1883 ; (**35**) fragment of plain glazed floor-tile ; (**36–38**) old Dutch tiles, from old houses in Edinburgh, viz.—(**36, 37**) from Major Weir's house, West Bow ; (**38**) from old house in Lawnmarket—J. W. Small, 1887 ; (**39, 40**) portions of two floor-tiles of reddish clay, from Cathedral of St Andrews—Alexander Hutcheson, 1888 ; (**41–61**) Dutch tiles, with scriptural subjects ; (**62**)

LR with *fleur-de-lis*, from Melrose Abbey—Alexander Curle, 1892; (**63–66**) tiles with floral patterns, from house of Sir John Smith of Grotham, Lord Provost of Edinburgh, 1650—H. H. Norie, 1892.

FLOOR TILES, &c.

[From other Countries.]

In Table Case, South Side of Second Floor.

LS 1–10. Glazed Floor-tiles, ornamented with yellow patterns, viz.—(**1, 2**) from Repton, Derbyshire—H. A. Anderson, 1867; (**3–5**) from Shaftsbury Abbey, Dorset—J. T. Irvine, 1856; (**6–8**) with incised and coloured patterns, from pavement of St Patrick's Cathedral, Dublin—John Bell, 1850; (**9, 10**) with incised patterns, localities unknown.

MUSICAL INSTRUMENTS.

In Floor Case and on East Wall of Ground Floor.

LT 1–24 Viz.—(**1–3**) harps, viz.—(**1**) called "Queen Mary's Harp," 31 × 18 in., ornamented with foliaceous scrolls and figures of animals; (**2**) called "The Lamont Harp," 38 × 18½ in., with ornamented mountings of brass—both deposited by John Stewart of Dalguise, 1880; (**3**) triangular-shaped, 45 × 26 in., on triangular stand, five strings remaining—W. B. Johnstone, 1860; (**4**) drum-case with Royal Arms and C.R. II., from Old City Chambers, Edinburgh; (**5–7**) bagpipes, viz.—(**5**) with mountings of lead and horn—James Drummond, 1877; (**6**) Irish bagpipes, purchased at sale of Cardinal York's effects at Rome, said to have belonged to Prince Charles Edward—Mrs Stewart, 1871; (**8–10**) bassoons, viz.—(**8, 9**) brass-mounted, 48 in. long; (**10**) 37 in. long; (**11, 12**) touting-horn, 27 in. long, brass-mounted; (**12**) stock and horn of ebony, and horn mounted with ivory—James Drummond, 1877; (**13–22**) trumpets and bugles, &c., which belonged to corps of Edinburgh Volunteers in 1800—James Johnstone, 1851; (**23, 24**) drums used by Old Town Guard of Edinburgh; (**25**) touting-horn, recently used for signalling by fishermen, from North Berwick—Purchased 1891.

MUSICAL INSTRUMENTS.

[From other Countries.]

In Floor Case, North Side of Ground Floor, and above Wall Case on Second Floor.

LU 1–3. Viz.—(**1**) cast of harp "of Brian Borumha," 37 × 22 in., original in Trinity College, Dublin—Robert Glen, 1881; (**2**) Irish harp, 44½ × 32½ in., carved in relief, and forearm terminating in animal's head—*Bell Collection;* (**3**) touting-horn of ivory, 26 in. long, 5¼ in. dia. at wide end, carved with birds, animals, and foliaceous scrolls in relief—T. Hibbert Ware, 1850.

LT 1. Scottish Harp.

COOKING-POTS OF BRASS AND IRON, &c.

(Mostly with Loops for Handles and Three Feet.)

Below Floor Cases, South Side of Ground Floor.

MA 1-45. Brass Pots, viz.—(1) 11½ × 9¼ in., from Whitebank, Clovenfords, Selkirkshire—Purchased 1881; (2) 13½ × 11 in., from Longwood, Langholme—Treasure Trove, 1862; (3) 13 × 9½ in.—William Douglas, R.S.A., 1865; (4) 14 × 8 in., with scroll ornament, from Kilsyth, Stirlingshire—Treasure Trove, 1852; (5) 11½ × 9 in., with illegible inscription in Gothic letters on ornamental band round middle, and two long-tailed dragons facing each other, from old house at Peebles—James Brown, 1808; (6) 11 × 9½ in., and (7) flagon, 9 in. high, with handle and spout, found in draining Loch of Leys, Kincardineshire—Sir A. Burnet, 1851; (8) 11 × 7½ in., locality unknown; (9) 9½ × 9 in., from Thirlestane Castle, Lauder, Berwickshire—James Usher, 1832; (10) 12 × 9 in., found in digging in Bathgate, Linlithgowshire—Treasure Trove, 1865; (12) 11½ × 8½ in., from Quarryford, E. Lothian—James Usher, 1832; (13) 11¾ × 7½ in., found with silver coin at Langhope Hill—Treasure Trove, 1880; (14) 10 × 7½ in., found with flagon (MC 13) near Peebles—Sir A. Hay, 1865; (15) 7 × 5½ in., found near Renalknowe, Lochmaben, Dumfriesshire—Treasure Trove, 1864; (16) 9 × 8 in., found in cutting on North British Railway, near Haddington—Horatio M'Culloch, 1862; (17) 6 × 4¾ in., found in deepening Forth, near Cambuskenneth Ford, Stirlingshire—Sir Geo. Harvey, 1852; (18) 6¾ × 4½ in., from Castle Law, Blair Hill, Stirlingshire—R. Dundas Bruce, 1832; (19) 5 × 4½ in., imperfect, from Biggar—Purchased; (20) 7 × 4½ in., with handle 4 in. long, dug up at Long Yester, Haddington—W. W. Hay, 1831; (21) 7 × 5 in., handle imperfect, from Dudhope, near Galashiels, Selkirkshire—Robert Mercer, 1862; (22) 6 × 4½ in., with handle 6 in. long, ornamented with double concentric circles and inscribed R. MCTRO, I.F.—R. White, 1828; (23) 8½ × 5½ in., imperfect, with handle 6½ in. long, from Langton, Dumfriesshire—John Gow, 1867; (24) 8½ × 6 in.—Purchased 1868; (25) fragment of pot, 10 in. dia., from Cramhaws, Berwickshire—J. S. Bertram, 1877; (26) 8½ × 6½ in.; (29) 8½ × 6½ in.; (30) 9 × 5¾ in., with plain handle 6 in. long, from Hunterhouse Moss, Lochmaben—Treasure Trove, 1862; (31) 8 in. high, lip broken, handle 7 in. long, and ornamented with double concentric circles and central dots, found at Blairgowrie, Perthshire, 1856; (32) 11 × 9½ in.; (33) 10 × 8½ in.; (34) 9¾ × 7½ in.; (35) 7½ × 6½ in., imperfect, from Parish of Wiston, Lanarkshire; (36) 9 × 6½ in.; (37) 7¼ × 6½ in., from Libberton, Lanarkshire; (38) 8 × 6 in., rim imperfect—*Sim Collection;* (39) 8¾ × 7 in., found with upwards of 7000 silver pennies of Edward I., II., and III., at Montrave, Fifeshire—Treasure Trove, 1882; (40) 15½ × 13 in.; (41) 12 × 9 in.; (42) 11 × 8½ in.; (43) 9 × 6 in.—all with loops at the sides; (44) 6 × 6 in., with straight handle 6 in. long, ornamented by six sets of concentric circles, found at Balgone, E. Lothian—Sir G. Grant Suttie, 1859; (45) 12 × 8 in., with circular iron handle, found with brass vessel and tripod flagon and portion of iron sword-blade at Denny—Treasure Trove, 1859; (46) miniature pot of bronze, 3¾ × 2½ in., from Corriemony Churchyard, Inverness-shire—Treasure Trove; (47-51) iron pots, viz.—(47) 12 × 11 in.; (48) 11½ × 10 in., imperfect; (49) 8 × 8½ in.—W. Douglas, 1865; (50) 10¼ × 10½ in.; (51) 9¼ × 8½ in.; (52) cooking-pot of brass, with three feet, 5¾ in. high by 9¼ in. across mouth, with long handle, said to have been found in Stirlingshire—Purchased 1885; (53) pot of

MA brass with three feet, $7\frac{3}{4} \times 6\frac{1}{4}$ in., found in moss, Lochgelly, Auchterderran, Fifeshire—Purchased 1886; (**54**, **55**) cooking-pots, &c., viz.—

MA 54.

(**54**) of brass, $11\frac{1}{4} \times 9$ in., perfect, from Dowalton; (**55**) of iron, $10\frac{1}{2} \times 7$ in. —Sir Herbert E. Maxwell, 1889; (**56**) tripod pot, 19 in. high, 12 in. across mouth, from Mochrum Loch, Wigtownshire—Treasure Trove, Deposited 1892.

COOKING-POTS OF BRASS AND IRON.

[From other Countries.]

In Wall Case opposite Entrance Door, Second Floor.

MB 1-3. Viz.—(**1**, **2**) from Ireland, viz.—(**1**) pot, $6\frac{1}{4} \times 4\frac{1}{2}$ in., with straight handle $5\frac{1}{2}$ in. long; (**2**) lower portion of pot—*Bell Collection;* (**3**) kettle of brass, $5\frac{1}{4} \times 6\frac{1}{4}$ in., with two spouts, curved handle, and hook for suspension—Purchased.

EWERS, FLAGONS, MEASURES OF BRASS, &c.

In Pillar Case, South Side of Ground Floor.

MC 1-36. Viz.—(**1-21**) flagons with three feet, viz.—(**1**) with curved handle, and spout, $9\frac{1}{2} \times 4$ in.; (**2**) 9 in. high, with curved handle and straight spout,

MC and with hinge on lip for cover, found with pots and vessels at Balgone—Sir George Grant Suttie, 1859; (**3**) 9 × 3½ in., found with brass pot and rim of vessel at Denny—Treasure Trove, 1859; (**4**) tripod ewer, imperfect, 8 in. high, from Innermessan, near Stranraer—Sir H. E. Maxwell, 1889; (**6**) 9 in. high, found near Biggar—James Brown, 1808; (**7**) 8½ in. high, found near Dalkeith—Purchased 1853; (**8**) 9 in. high, found on Hill of Auchintilloch, Lesmahagow—Treasure Trove, 1864; (**9**) flat-bottomed, 5 in. high, found in moss in Highlands — Alexander H. Rhind, 1863; (**10**) 9 in. high, found at Castlelaw on Blairhill, near Alloa—R. D. Bruce, 1802; (**11**) 9 in. high, from Birrens, Annandale, Dumfriesshire—Purchased 1851; (**12**) 10½ in. high; (**13**) 8 in. high, found near Peebles with pot (MA 14)—Sir Adam Hay, 1865; (**14**) 8½ in. high, with curved handle and hinge for cover, found in moss near Closeburn Hall, Dumfriesshire—C. G. S. Monteith, 1830; (**15**) 7½ in. high,

MC 4.

MC 30.

found at Dunbar, with coins—Purchased 1881; (**16**) 8½ in. high, with leaden cover, found at Fortrose, containing upwards of 1100 silver coins

MC of Robert III.—Treasure Trove, 1880; (**17**) 10 in. high, with sloping mouth; (**18**) 9½ in. high, imperfect; (**19**) 8 in. high, imperfect, found near Biggar; (**20**) 7½ in. high, with hinge and everted lip; (**21**) flat-bottomed, 7 in. high, from Loanhead, Lamington, Lanarkshire—*Sim Collection;* (**22-29**) flat-bottomed tankards or mugs, viz.—(**22**) 7 in. high with hinge for cover, from Quarryford, East Lothian—James Usher; (**23**) 5¾ in. high, from Newbigging, Fife—Lord Talbot de Malahide, 1870; (**24**) of pewter, with handle and lid, inscribed T.T.B.M.L. 1646; (**25**)

MC 31.

of brass, with armorial bearings of Dunbar—Town Council of Dunbar, 1828; (**26**) of brass, found in digging foundations of South Bridge, Edinburgh; (**27-29**) of white metal, with handles and lids—*Sim Collection;* (**30**, **31**) lion-shaped ewers of brass, with the handles formed of bodies of animals, one bearing stag's head in front—*Sim Collection;* (**32**) lion-shaped ewer of brass, with handle formed of body of animal—Purchased 1885; (**33**) tripod ewer of brass, with curved handle and spout, with piece inserted in one side—Purchased 1886; (**34**) pewter flagon with winged lid, inscribed *Wine Company of Scotland*—Purchased 1890; (**35**, **36**) tripod ewer, 8½ in. high, from Carleith, Ayrshire, and copper jug, probably a measure—Miss Brown, 1892.

EWERS, FLAGONS, MEASURES OF BRASS, &c.

[From other Countries.]

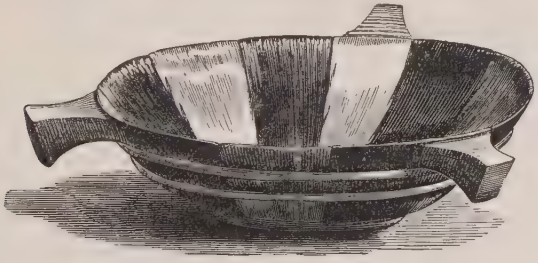
In Wall Case opposite Entrance Door on Second Floor.

MD 1-5. Viz.—(1) tripod flagon of brass, 9¼ in. high, one foot wanting—*Bell Collection;* (2-4) pewter measures from London, viz.—(2) 6⅝ in. high, cylindrical in shape, inscribed round middle "*John Wickins at y^e^ Cock and Crown in Mountagu Clos, Sovthwark,*" and on handle I.W.M., from the Thames; (3) 7 in. high, contracting at neck, with hinge for lid, inscribed round middle "*Thomas Hollinwood at y^e^ Foxe and Tap in Chick Lane,*" and on handle H.T.A.; (4) 6 in. high, contracting at neck, with lid displaying four small circular stamps, two of which have initials R.H. on either side of bell, the other two consisting of initials Z.S. interlaced, and flower on either side—Purchased 1869; (5) double-handled, vase-shaped measure of brass—*Bell Collection,* Purchased 1867.

KITCHEN AND TABLE UTENSILS, &c.

In Floor Case, South Side of Ground Floor.

ME 1-275. Viz.—(1-17) Quaichs, with side handles, viz.—(1-11) of wood, viz.—(1) ornamented with interlaced work—Purchased 1882; (2) with interlaced ribbon pattern, from Findhorn, Elginshire—Purchased 1883; (3)—Purchased 1882; (4) inscribed M.B.; (5) of fir, found in Diamond coal-mine, near Inveresk—Robert Bald, 1828; (6) of horn—*Lerwick Collection;* (7) of ebony and



ME 7.

ivory, hooped with silver, said to have belonged to Prince Charles Edward—Captain Deuchar, 1860; (8) of ebony and wood, said to have been made by Archibald, Marquis of Argyll—Sir Alexander Campbell, 1865; (9) with wicker hoops, marked on bottom W.W.; (10) with wicker hoops and silver-mounted rim; (11) with hoops of wicker; (12) of marble, with the harp, *fleur-de-lis,* and rose, bottom showing thistle between initials I.R. under crown—Mrs Greig, 1823; (13) of white marble, plain; (14) of serpentine—Prof. Daniel Wilson, 1863; (15, 16) of bell-metal; (16) with coin of gun-money of James VII. in bottom; (17) of silver, inscribed GEO. TUACH 1789, ANN M^c^LEA, G.J., and INS, Inverness hall-mark—Robert Carfrae, 1873; (18) Scottish ale-cap of hooped staves, 4½ in. high, with handles—James Drummond, R.S.A., 1877; (19-25) tankards, viz.—(19) of wood, with brass hoop, inscribed EDINBURGH; (20) of wood, with handle and lid; (21) of silver, inscribed and dated 1700; (22) of porcelain—J. Pringle Park, 1867; (23) of glass, etched with figures of goats feeding, and

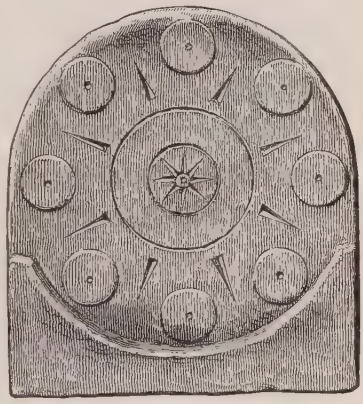
ME inscribed J. WOLFF 1601—William Murkle, 1868; (**24**) of leather; (**25**) of delft, with pewter lid—Miss Deuchar, 1870; (**26–32**) drinking-horns, viz.—(**26**) ornamented with parallel rings; (**27**) with whistle at lower end, found at Waterton Castle, Ellon, Aberdeenshire, 1864; (**28**) with whistle, silver-mounted, with initials D.G., from Haddington—Purchased 1876; (**29**) engraved with figures, and inscribed I.A. 1699, I. REMME, B.N.—W. W. Hay Newton, 1858; (**30**) with stand—George Petrie, 1877; (**31**) square-shaped; (**32**) engraved with hunting-scene—*Lerwick Collection;* (**33–41**) drinking-vessels, &c., of glass, viz.—(**33**) wine-glass, engraved with thistle and motto "Rebel no more, and do thou flourish;" (**34**) wine-glass, inscribed "God save the King," "God bless the Prince of Wales," and date 1716, from Haddington—Purchased 1876; (**35**) camp-bottle covered with leather, said to have belonged to Duke of Perth, 1715—Dr William Moncrieff, 1823; (**36**) bottle found at Aytoun Castle, Berwickshire—Mrs Moffat; (**37**) bottle, marked JULIAN HINDMARSH, 1790; (**38**) bottle, shaped like pair of bellows; (**40**) bottle of green glass; (**41**) portion of glass vessel with Queensberry crest, from Neidpath Castle, Peeblesshire; (**42–54**) jars of earthenware, viz.—(**42**) lower portion of jar of brown ware, found with coins at Dumfries—Treasure Trove, 1879; (**43**) jar of brown glazed ware, 6 in. high, imperfect, found with coins of Edward III. and James II. at Freeland, Forgandenny, Perthshire—C. Wood, 1876; (**44**) fragment, dug up at Kinghorn, containing coins of Robert Bruce, Edward I. and II.—Treasure Trove; (**45**) bellarmine or "Greybeard" of mottled brown ware, 8½ in. high, with human face and crest, dug up at Eyemouth—David Milne Home, 1863; (**46**) 11½ in. high, found in well at Blackness Castle in 1845—Rev. D. Fleming, 1858; (**47**) 12 in. high, from Thorneyhill, Kenmure, New Galloway—Mr Gilchrist, 1865; (**48**) 15½ × 7½ in., of coarse reddish ware of peculiar form, dug up at Gullane, Haddington—Purchased 1883; (**49**) 10½ in. high of yellow glazed ware, with flat handle, pierced with small hole near the bottom, found in churchyard, Urquhart, Elgin—Rev. G. Ingram, 1876; (**50**) jar, with loop handle, 6 in. high, found under foundation of house in Leith—Dr R. Paterson; (51) large jar of earthenware, 2 feet 10 in. high, 20 in. wide, and 8 in. across mouth, from house in High Street—John Marr, 1877; (**52**) pot-shaped vessel of red ware with three feet; (**53**) jar of brown ware, 3 in. high—George Sim, 1878; (**54**) small vessel of white enamel—*Sim Collection;* (**55–60**) plates, or shallow dishes, viz.—(**55**) small pewter plate, found in ruins of Lochmaben Castle; (**56, 57**) dishes of white metal, stamped with thistle—*Sim Collection;* (**58**) large plate of old painted delft ware—Mrs Jessie Pape, 1864; (**59**) china plate, with naval engagement, and "SUCCESS TO THE CROW ISLE," made at Kingston-on-Hull—S. Talbot Hassel, 1871; (**60**) wooden trencher, recently used in Teviotdale—Mrs Turnbull, 1863; (**61–64**) wooden cups, or platters, viz.—(**61**) from house at Peebles; (**62**) found above the ceiling in Mary of Guise's House, Blyth's Close; (**63**) found in moss in Shetland—R. A. F. Coyne, 1864; (**64**) unknown; (**65–70**) rude wooden vessels, viz.—(**65–68**) oblong cup, 6 in. long, with looped handles and fragments of similar cup, found in moss at Ardgour, Inverness-shire—Alexander Maclean, 1871; (**69**) fragment from Abernethy—Sir T. Dick Lauder, 1825; (**70**) from Dalvaird Moss, Glenluce—Rev. Geo. Wilson,

ME 45.

ME 1871; (**71–73**) wooden bowl, or cup, iron bullet, and lid, used for grinding mustard—J. A. Smith, M.D.; (**74–76**) mortars, viz.—(**74**) of wood, bound with brass hoop; (**75**) of stone, $6 \times 3\frac{1}{2}$ in., from Dunfermline

ME 71.

—Geo. Robertson, 1881; (**76**) of stone, unknown; (**77–79**) black jacks of leather—R. Mercer, 1869; and one by T. Hibbert Ware, 1849; (**80, 81**) toasting or baking stones for baking oat cakes before peat fire on hearth, viz.—(**80**) from Fordoun—Allen Mathewson, 1876; (**81**) from Clova, with date 1786—H. Gordon Lumsden, 1879; (**82–105**) spoons, viz.—(**82–97**) of silver—(**82–87**) marked I.S, two dated 1617, found on the Hill of Culrain, Edderton, Rossshire; (**88–92**) marked I.B. and A.Y.C., found in old house at Irvine, Ayrshire—Treasure Trove, 1865; (**93**) found with pennies of Alexander III. and Edward I. and II. in grave in churchyard of Brechin, Forfarshire—Lord Gardenstone, 1785; (**94**) inscribed M. BANNATIN 1674—W. Mortimer, 1874; (**95**) found at Windy Mains, Haddington; (**96**) tea-spoon, dug up in West Bow, Edinburgh, inscribed "K. A. BORN DEC. ii. 1716;" (**97**) tea-spoon inscribed C.S.—Miss J. M. Jamieson; (**98**) of brass, dug up near old cathedral of Lismore, Argyllshire; (**99**) unknown; (**100**) dug up in High Street, Montrose, with other articles—Treasure Trove, 1862; (**101–103**) of pewter; (**104**) of bone; (**105**) sternum of solan goose, used as spoon in St Kilda—J. Sands, 1877; (**106–124**) knives and forks, viz.—(**106, 107**) clasp knife and fork; (**108, 109**) forks, with handles mounted and inlaid with silver; (**110, 111**) forks of bone, made by French prisoners in 1813—H. Cameron, 1864; (**112–116**) leather case with two knives, fork, and bodkin—Purchased 1870; (**117**) knife, found in moss in Berwickshire—Purchased 1849; (**118, 119**) knife-blades, from old house in



ME 80.

ME West Bow; (**120–122**) table clasp-knife and fork and two iron knives—*Sim Collection;* (**123**) gully-knife, used for splitting wood—John Rae, 1880; (**124**) handle and portion of blade, found in moss at Heddle, Orkney, 1857; (**125**) carved implement of bone, hollowed and cut lengthwise, from Drakemyre, Ellon, Aberdeenshire—Dr John Stuart, 1872; (**126**) wooden platter, with salt cellar in centre—Dr J. A. Sidey, 1883; (**127**) wrought-iron, four-pronged fork, ornamented with scroll-work—Robert Carfrae, 1883; (**128–130**) punch-ladles of horn and wood, viz.—(**128**) with hinge, inscribed I.M^{C}L; (**129**) with whistle at end of handle; (**130**) of wood; (**131, 132**) carved ivory snuff or nutmeg graters, viz.—(**131**)—*Sim Collection;* (**132**) probably Italian—R. Bryson, 1849; (**133, 134**) linen smoothers of black glass; (**133**) 5½ in. dia., with handle 7½ in. long, from Edinburgh—J. Romilly Allen, 1881; (**134**) 5 in. dia., handle 7¾ in. long, from St Michael's Inn, Fifeshire—James Waddell, 1881; (**135**) large clasp-knife, rudely ornamented; (**136**) old three-legged "Cutty" stool—*Sim Collection;* (**137**) old Scotch pudding-dish, from South Coulter—*ibid.;* (**138**) old wooden platter—*ibid.;* (**139**) circular japanned iron tray, with inscribed silver plate in centre—*ibid.;* (**140**) large wooden quaich, 6¾ in. dia.—*ibid.;* (**141, 142**) from old Palace of Dunfermline, viz.—(**141**) jar of glazed earthenware; (**142**) fragment of thick glass vessel—W. C. Miller, 1883; (**143**) old wicker spoon creel, from Aboyne, Aberdeenshire — Purchased 1883; (**144, 145**) small cups, from Bonar Bridge, Sutherlandshire, viz.—(**144**) drinking-cup of horn, ornamented with semicircular lines; (**145**) egg-cup of wood—Purchased 1883; (**146**) silver-mounted punch-ladle with silver plate inscribed "NEIL GOW'S PUNCH SPOON, PRESENTED BY HIS DAUGHTER, MRS M'DONALD, TO HER SON-IN-LAW, DAVID FOGGO"—Rev. Dr R. H. Story, 1883; (**147**) small jar of glazed pottery with string for handle, from Lerwick—Purchased 1883; (**148**) pipe iron, from Inverkeithing—Purchased 1883; (**149**) stone mortar, imperfect, 6 in. dia., with three handles, from Whithorn, Wigtownshire—James Ross, 1883; (**150**) silver knife-handle in two halves, found in cist in island of Sanday—Prof. T. S. Traill, 1870; (**151**) bone handle of knife, from Cockenzie, East Lothian—Purchased 1849; (**152**) drinking-cup of horn, engraved with scriptural and other subjects; (**153–158**) portions of drinking-jars; (**159**) fisherman's meal-caddy, bound with iron hoops; (**160**) upper stone of small quern for grinding snuff, from Aberdeenshire—Rev. James Gammack, 1884; (**161, 162**) grotesque nut-crackers of wood—Purchased 1882; (**163**) brass pepper-box—*Sim Collection;* (**164**) drinking-cup of brass, with half-crown of James VII. (gun money) inserted in bottom—*Sim Collection;* (**165**) mediæval sauce-holder of brass, in shape of boat; (**166, 167**) kegs of butter, viz.—(**166**) cut out of one piece, 24 × 16½ in., with lid, found under 4½ feet of peat in moss at Glen Gell, Morvern, Argyllshire—Purchased 1879; (**167**) hollowed out from one block, 14 × 13 in., without bottom, found in moss at Kyleakin, Skye—Purchased 1884 (see also DU 6); (**168**) portions of circular cake of adipocere, found in marsh on bank of Conan, Strathconan, Ross-

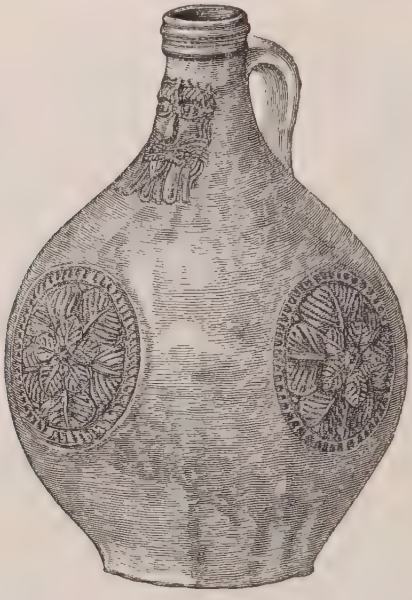
ME 133.

ME shire—Eustace Balfour, 1884; (**169**) fragments of spouts of vessels of reddish ware, from Unst, Shetland; (**170**) bellarmine or greybeard, 11 in. high, $8\frac{1}{2}$ in. greatest dia., found filled with quicksilver in Fetlar, Shetland—Treasure Trove, Deposited 1884; (**171**) mass of adipocere, from

ME 166.

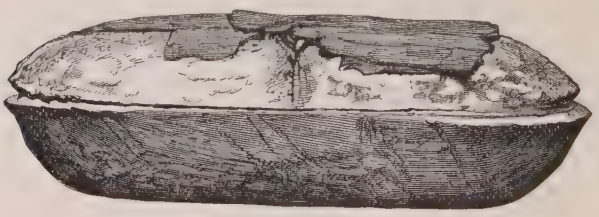
bog in Ross-shire—James Smith, 1849; (**172, 173**) drinking-cup of horn and horn spoon, from South Uist—Purchased, 1885; (**174**) keg, 18 in. high, 11 in. dia., filled with butter, from Plockton, Loch Carron—Dr C. G. Mackay, 1887; (**175**) fragments of mediæval pottery; (**176**) small quaich of horn, with side handles, bottom covered with ornamental pattern —Purchased 1886; (**177**) large quaich of pewter, with side handles,

ME inscribed A A DUNFERMLINE and I H and R WELLWOOD—Purchased 1886; (**178**) small vessel of oak, $3\frac{1}{4} \times 3\frac{7}{8}$ in., from Illeray, North Uist—Purchased 1887; (**179**) quaich of oak, $2\frac{5}{8}$ in. dia., with side handles—Purchased 1887; (**180**) bronze spoon, bowl imperfect, and handle terminating in



ME 170.

draped human figure, from Tantallon Castle—*Ruthven Collection;* (**181**) knife, silver-mounted, with handle of crystal, imperfect—Purchased 1887; (**182**) fragments of quaich of wood, found on site of lake-dwelling in White Loch of Ravenstone, Wigtownshire—Lord Borthwick, 1887;



ME 222.

(**183, 184**) two bottle-necks of glass, found in the dungeon of Preston Tower—J. Fowler Hislop, 1888; (**186–191**) spice mills of wood, viz.—(**186**) from Ardiquish, Fochabers; (**187**) from Guestloan, Lower Cabrach; (**188**) from Loanhead, Cairnie; (**189**) from Glen Rinnes,

ME Banffshire ; (**190**) from Fifekeith ; (**191**) bound with iron, from Croftnahaven, Dulnain Bridge, Grantown—*Linn Collection ;* (**192**) drinking-cup of wood, from Slackbowie, Red Craig, Mulben—Purchased 1888 ; (**193-216**) miscellaneous household utensils, viz.—(**193**) mustard cap and

Specimens of Harris Pottery.

bullet, from Slackbowie ; (**194**) mutchkin measure of pewter, from Mulben ; (**195**) ladle of horn, from Mid Bellandy, Glen Rinnes ; (**197**) toddy-ladle of wood, from Bowlins, Keith ; (**198**) toddy-ladle, from Coralhead, Keith ; (**199, 200**) toddy-ladles, from Bridgend, Fifekeith ; (**201**) bread-spade with wooden handle, from Hill Foot, Mulben ; (**202**) bread-spade of iron, from Bracobrae, Grange ; (**203**) bread-spade of iron, from Auldtown of Newmill ; (**204**) bread-spade of iron, from Glen of Newmill, Keith ; (**207**) pair of large shears, from Lynnmore, Glen

ME Rinnes; (**208**) large iron hooks and chain for hanging pots in the chimney, from Glen Livat; (**209, 210**) table forks, from Auchanach, Ruthven, Aberdeenshire; (**211**) fork, from Newton of Corinacy, Cabrach; (**212**) fork, from Newtack, Keith; (**213**) knife with horn handle, brass-mounted, and marked with the initials J.S., in leather sheath; (**215, 216**) fragments of two bellarmines, from Stotfield, Elgin—*Linn Collection;* (**217**) jar of mediæval ware, unglazed, 5 in. high by 3¾ in. across mouth, from Wigtownshire—Sir Herbert Eustace Maxwell, 1889; (**218**) small glass bottle, found in garden, Monreith, Wigtownshire—Sir Herbert Eustace Maxwell, 1889; (**219**) large wooden dish, rudely dug out, oval-shaped, with handle at each end, from Moss at Kirkchrist, Penninghame, Wigtownshire—Sir Herbert Eustace Maxwell, 1889; (**220**) butter-pat of wood, inscribed on back ELSPET LAWSON A. . 1840, from Grantown—Purchased 1888; (**221**) handle and small portion of dish of mediæval ware, from Kirkwall, Orkney—Purchased 1888; (**222**) large oval dish of wood, filled with butter, found in moss at Cunnister, North Yell, Shetland—Purchased 1888; (**223**) shallow dish of earthenware, yellow glazed inside, and having short projecting handle, found at Old Priory of Pittenweem—Thomas Galloway, 1888; (**224, 225**) mustard mill of wood, and short, thick bottle of glass, both found near Forres, Elginshire—Purchased 1888; (**226**) old glass bottle, from Rhodes, North Berwick—Deposited by C. Campbell, 1887; (**227**) spice-mill or grater, from Aberdeenshire—Purchased 1889; (**228–230**) three bottle-marks of glass, viz.—(**228**) marked *James Carrudus*, 1709; (**229**) with letters D.D.; (**230**) marked Q—all from Mouswald, Dumfriesshire—Charles Carruthers, 1889; (**231**) small drinking-cup of horn, from Culbin Sands, Elginshire—Purchased 1888; (**232**) large wooden ladle—Purchased 1886; (**233**) small glass bottle, from Ayrshire—Charles Browning, 1889; (**234**) spoon of horn, with long handle, and ornamented cavity or bowl, locality unknown—Rev. George Wilson, 1889; (**235**) spice-mill of wood, with initials A.G., from Elginshire—Purchased 1890; (**236**) large quaich of wooden staves, 7 in. dia., mounted with silver, marked with initials R.D. I.M. on silver plate on inside—Robert Carfrae, 1890; (**237**) toasting-stone of sandstone, with centre of upper face decorated with four hearts placed radially in relief, and surrounded by incised ray-like border, back carved with initials IDML. and date 1791, from Forfarshire—*Sturrock Collection;* (**238**) saucer-like vessel of reddish clay, 5¾ in. dia., greenish glazed on inside, with cylindrical-shaped handle, 2¾ in. long, projecting from bottom, found in digging at Castle Street, Forfar—Deposited by Dr W. F. Murray, 1883; (**239**) small bowl-shaped jar of reddish earthenware, with green glaze round top, imperfect, found with coins in Old Fort, Ayr—Treasure Trove, 1892; (**240–275**) home-made pottery, craggans, teapots, cups, saucers, &c., from Harris.

KITCHEN AND TABLE UTENSILS, &c.

[From other Countries.]

In Wall and Table Cases on Second Floor.

MF 1–118. Viz.—(**1**) jar, 4½ in. high, broken, dug up at Carstairs, 1865; (**2–11**) from London, viz.—(**2, 3**) portions of jars, with green glaze, ornamented with human face; (**5–9**) small cups of unglazed clay; (**10**) small three-handled jar; (**11**) portion of red clay jar, 6 in. dia., broken, dug up at new Scottish wharf, Wapping—Josiah Livingston, 1871; (**12**) china stand, painted with arms of Earls of Cork, 1678, and motto "Post funera

MF

Virtus ;" (**13**, **14**) from Norway, viz.—(**13**) wooden bowl, with handles formed in shape of animals' heads ; (**14**) cup, shaped like wine-glass—A. Sholto Douglas, 1882 ; (**15**–**55**) wooden vessels, viz.—(**15**–**40**) *methers* or drinking-vessels, with handles ; (**41**–**43**) ; round vessels, with foot and stalk shaped like wine-glass ; (**44**–**46**) dishes in process of formation ; (**47**–**52**) large vessels ; (**53**–**55**) butter-marker, spoon, &c.—*Leckie Collection*, Purchased, and *Bell Collection ;* (**56**, **57**) shallow dishes of wood ;

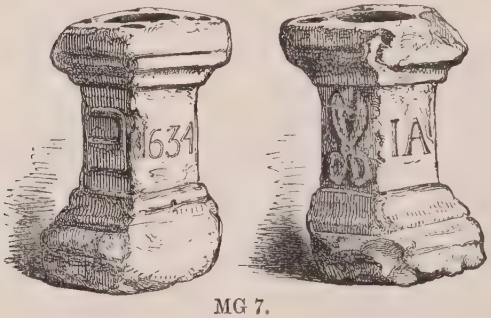
MF 15, 69.

(**58**–**62**) inscribed mortars of brass, viz.—(**58**) inscribed MARC LE SER ME FECIT 1575—H. Armstrong, 1813 ; (**59**) inscribed LOF GODT VAN AL A° 1601, Dutch—James Nairne, 1831 ; (**60**) SOLI DEO GLORIA 1630 ; (**61**) LOF GODT VAN AL. ANNO 1631 (with pestle)—Miss Deuchar, 1871 ; (**62**) SOLI DEO GLORIA 1634 ; (**63**–**67**) two spoons of brass, two knife-blades of iron, one inlaid with silver, and clasp-fork—J. T. Irvine, 1881 ; (**68**–**74**) knife and knife-handles cast in brass, (**69**) representing Jonah and the whale ; (**75**–**87**) knives and knife-blades dug up in the Tower of London —Marquess of Breadalbane, 1846 ; (**88**–**92**) knives and knife-blades dug up in street excavations in Dublin ; (**96**–**103**) scissors of iron, from moat of Tower of London ; (**104**) drinking-flask of reddish ware, inscribed VETGRIS ; (**105**, **106**) moulds for making a special kind of cake in Flanders—*C. K. Sharpe's Collection ;* (**107**, **108**) knives, one a folding knife with handle in form of a dog ; (**109**–**114**) from Norway, viz.—(**109**, **110**) spoons of silver, one with floral ornamentation on back of bowl, the handle terminating in open ball of filigree work, the other with initials T.O.S. and date 1690 on bowl ; (**111**-**114**) drinking-cups of silver, viz.—(**111**) oval-shaped, inscribed on one handle L.O.S.M.E.D. ; (**112**) conical-shaped, of silver gilt ; (**113**, **114**) circular, one with coin of Frederick IV. of Denmark (dated 1714) in bottom—Robert Carfrae, 1890 ; (**115**–**118**) spoons of reindeer-horn from Lapland—Professor T. Aufrecht and A. Sholto Douglas.

LAMPS, CANDLESTICKS, TINDER-BOXES, &c.

In Floor Case, South Side of Ground Floor.

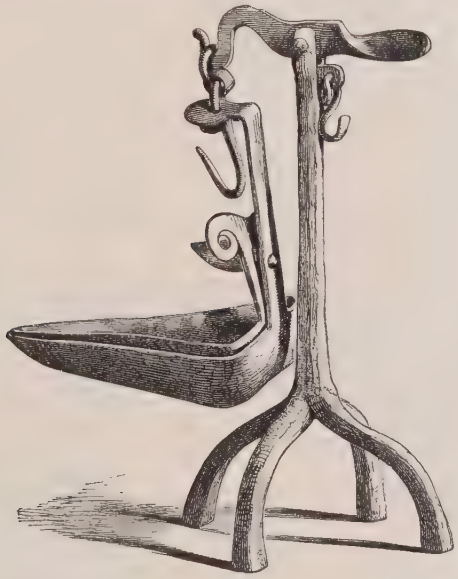
MG 1-251. Viz.—(1-3) rush-holders of iron, with candlesticks attached—*Bell Collection;* (4-20) candlesticks, viz.—(4, 5) of iron, with long handles for suspension; (6, 7) of stone, in form of Roman altars, one decorated with scissors and "goose," I.A., and dated 1634, the other found built into wall of old



MG 7.

house at Dalkeith—James T. Gibson Craig, 1852; (8) of stone, bearing on one side shears, on other "goose" in relief, and in front inscription ANDRO LESSELS 1636—Purchased 1882; (9) pillar candlestick of iron, from old City Weigh-house, Edinburgh—J. Douglas, 1863; (10) of wood, brass-mounted, from Lady Fraser of Lovat's House, Blackfriars Wynd, Edinburgh—Mr Thomson, 1834; (11) of brass, from St Magnus' Cathedral, Kirkwall; (12) of brass, formerly belonging to the incorporation of glovers at Perth; (13) of iron, with three feet and twisted stem, found in Lochmaben Castle, Dumfriesshire; (14) of wood, ornamented with figures of animals' heads, from Inverkeithing, Fifeshire—Purchased 1882; (15) candelabrum of twisted wire, for four lights—James Drummond, 1848; (16) formed of four small stone pillars; (17) tray candlestick of brass, with ornamented handle; (18, 19) pair of brass, ornamented; (20) of iron, pointed for insertion into wall, from Dumfriesshire—Arthur Burnett, 1838; (21-33) crusies or oil lamps, mostly of iron, viz.—(21) with iron stand—James Drummond, 1860; (22-26) donors unknown, one by James Johnstone, 1849; (28) from Montrose—John W. Small, 1888; (29) from Burraland; (30) of copper, from Fair Isle, Shetland—both by Dr John A. Smith, 1883; (31, 32) from Sumburgh and Stonybrake, Fair Isle, Shetland—John Bruce, 1883; (33) of copper, square-shaped, with four nozzles, the back of iron, from Wick, Caithness—Charles Bruce, 1889; (34-37) crusies of tin, &c., viz.—(34, 35) with hooks for suspension; (36) with stand, from Inverkeithing, Fifeshire—Purchased 1882; (37) lamp of iron; (38-55) tinder-boxes, &c., viz.—(38) of brass, with flint and steel—J. T. Hunter, 1861; (39) with pistol flint-lock and handle; (40) with pistol-barrel of brass for tinder-box, flint-lock and handle, and side candlestick attached, inscribed MR LAUCHLAN, EDINBURGH; (41) with flint-lock, from Elgin—R. M. Douglas, 1877; (42) for pocket, of iron, with initial D inlaid on lid; (43) of steel, for pocket; (44) tinder-box and candlestick combined, with steel—William Kinnear, 1880; (45) combined tinder-box and candlestick, with three flints and five steels; (46) pocket tinder-box with

MG hinged lid—both by Andrew Kerr, 1880 ; (**47**) combined tinder-box and candlestick, new, purchased in shop in Dunfermline—George Robertson, 1881 ; (**48**) of thin sheet iron, with lid and bottom of cork, from Kirkcudbright—Dr John Shand, 1880 ; (**49**) tinder-box and candlestick combined, with flint and steel, tinder and matches—Dr Alexander Knight, 1887 ; (**50**) pocket tinder-box with hinged lid, from Kirkcudbright—Dr



MG 21.

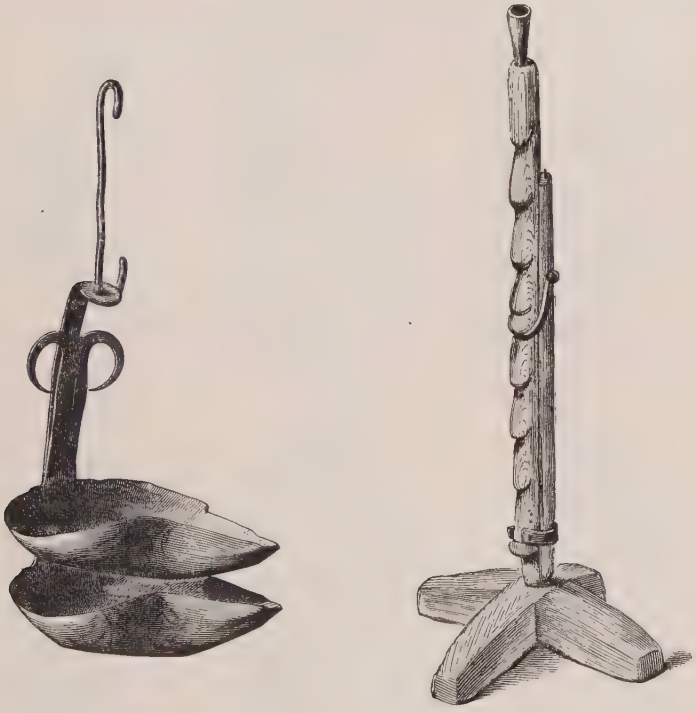
John Shand, 1880 ; (**51, 52**) pocket tinder-box of horn, with steel, from Lybster, Caithness—George Cunningham, 1880 ; (**53–55**) steels for striking fire—one by Dr John Shand, 1880 ; (**56–58**) taper-holders, viz. —(**56**) of iron, with stand, found at Kildrummy Castle, Aberdeenshire—Colonel David Balfour, 1863 ; (**57**) of iron—Purchased Douglas Sale, 1865 ; (**58**) of brass, with extinguisher ; (**59–62**) snuffers of brass, viz.—(**59**) ornamented with winged head, imitation of Roman coin, lion's head, &c., from Achallader, Argyllshire—Sir Alexander Campbell, 1865 ; (**60**) of similar design—Purchased 1869 ; (**61, 62**) ornamented in relief ; (**63, 64**) bracket candlesticks of wrought iron, viz.—(**63**)—*Sim Collection ;* (**64**)—Purchased 1882 ; (**65, 66**) hanging candlesticks of wrought iron—Thomas Chapman, 1883 ; (**67**) "Glasgow Apprentice Lantern," with case—*Sim Collection ;* (**68, 69**) large lantern of tin, from Inverkeithing, Fifeshire—Purchased 1883 ; and (**69**) an early "Davy Lamp" of brass—Robert Glen, 1883 ; (**70–73**) crusies, viz.—(**70**) from Aboyne, Aberdeenshire—Purchased 1883 ; (**71**) of brass, with the initials I. U., from Dundee—Robert Miln, 1884 ; (**72**) square-shaped—Purchased 1883 ; (**73**) with wooden pin for moving the wick—John M'Nellie, 1884 ; (**74**) hanging candle-holder—Purchased 1883 ; (**75**) hanging lamp of tin with three spouts, from Linlithgow—Treasure Trove ; (**76**) peerman of iron, with sliding top and tripod stand from Kirkcudbright—Kirkcudbright Museum Association, 1889 ; (**77**)

MG crusie of iron, from Orkney—Purchased 1888 ; (**78, 79**) double hanging candlestick of iron, imperfect, found in peat-moss in Glenshee, Perthshire, and (**79**) steel for strike-light, found on Moss-side Farm, Glenbervie, Kincardineshire—G. S. Duncan, 1889 ; (**80**) steel for strike-light, from South Uist—Purchased 1885 ; (**81**) bronze "Save-all," for candle, from New Galloway—Rev. George Murray, 1863 ; (**82–86**) crusies, &c., viz.—(**82**) hanging candlestick ; (**83, 84**) hanging lamps of tin, from Forfarshire—Purchased 1885 ; (**85, 86**) hanging crusies of iron, with lids, from Banffshire—Purchased 1886 ; (**87**) taper-holder of brass with three feet—Purchased 1888 ; (**88, 89**) crusies of iron, viz.—(**88**) from Barra, Shetland, made in mould BG 112—Purchased 1887; (**89**) from Alyth, Forfarshire—John W. Small, 1888 ; (**90–99**) collection of lighting appliances,

MG 81, 84.

from Aberdeenshire, viz.—(**90, 92**) crusies of iron ; (**93–95**) crusies of tin ; (**96, 97**) peermen or fir-candleholders ; (**98, 99**) two lanterns, one of tin, the other of wood—Purchased 1888 ; (**100**) crusie of iron, from Orkney—Purchased 1888 ; (**101**) crusie of tin ; (**102**) carle or wooden candlestick, 21 in. high, with cruciform base, from Glenkens, Wigtownshire—Sir H. E. Maxwell, 1888 ; (**103–223**) lighting appliances, principally from Aberdeenshire and Banffshire, viz.—(**103–124**) crusies of iron, viz.—(**103**) with lid, from Broomhills, Keith ; (**104**) with lid, from Woodside of Mulderie, Boharm ; (**105**) from Loanhead, Cairnie ; (**107**) double crusie ; (**108**) with lid, from Shenwall ; (**109**) with lid ; (**110**) from Burnhead, Dufftown ; (**111**) with lid, from Woodside of Mulderie ; (**112**) of triangular form, with lid, from Fifekeith ; (**113**) from Chapelhill, Glass ; (**114**) with lid, from Fifekeith ; (**115**) without locality ; (**116**) with lid, from Auldtown of Newmill ; (**117**) with lid gone, from Burnside of Oldyne, Glass ; (**118**) from Auldtown of Newmill ; (**119**) lower shell only, from Woodside of Mulderie ; (**124**) crusie, with lid, from bog of Newmill ; (**125–128**) crusies or oil lamps of tin, viz.—(**125**) from Woodside of Mulderie ; (**126**) weaver's lamp, from Burnside of Oldyne ; (**127**) curiously-formed lamp of tin ; (**129–131**) folding wall candle-holders of iron, viz.—(**129**) with sliding rack, from Hillhead of Enzie ; (**130**) from Aldivalloch, Upper Cabrach ; (**131**) from Keith ; (**132**) combined folding "peerman," candle-holder and crusie-holder of iron, from Bog of Newmill, Keith ; (**133**) "peerman" of iron, from Tarry Croys, Keith ; (**134**) "peerman" of iron, from Greenbog, Grange ; (**135–160**) folding "peerman" of iron,

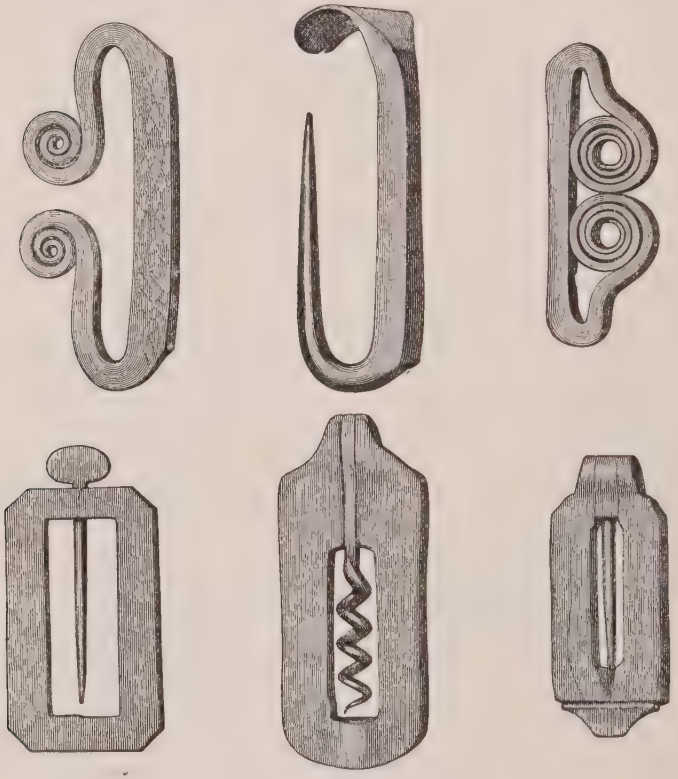
MG viz.—(135) from Mortlach; (136) inserted into a wooden base, from Tomnaven, Cabrach; (137) with small tray, from Porkbeg, Mortlach; (138) from Keith; (139) from Ardonald, Cairnie; (140) from Glen of New Mill, Keith; (142) from Milton of Tarry Croys; (143) with tray, from Avingarrow, Aberlour; (144) from Drainie, Old Castle; (145) from



MG 88, 102.

Sunnybrae, Edinvillie; (146) from Garral Burn, Aultmore, Grange; (147) from Forgieside, Keith; (149) from Nether Auchmore, Glen Rinnes; (150) from Smallburn, Mortlach; (152) from Aripeside, Botriphnie; (153) of brass, without locality; (155) with tray, from Enoch, Mortlach; (156) from Nether Bellandy, Glen Rinnes; (157) without locality; (158) from Bowlins, Keith; (159) from Fifekeith; (160) "peerman," crusie-holder and candle-holder combined, with stand, from Hollowdyke, Grange; (161–174) "peermen," with bases of wood and stone, viz.—(161) from Tarrycroys; (162) from Newburgh, Botriphnie; (164) from Hillhead of Auchinderran; (165) from Hillock of Echt, Cabrach; (166) from Upper Mulben; (168) from Glen Rinnes; (169) from Auchinderran, Keith; (170) from Corshillock, Knockands; (171) for burning fir-roots, &c., without locality; (173) "peerman" and candle-holder combined, from Glass; (175) "peerman" and fir-root burner for hanging up, from Boghead, Batchach, Aberlour; (176–179) combined "peermen" and fir-root burners, viz.—(176) from Avingarrow

MG or Airngarrow; (**177**) from Fachenbrain, Glen Rinnes; (**178**) from Allamichie, Glen Rinnes; (**179**) from Aberlour; (**180–182**) small "peermen," with wooden bases, viz.—(**180**) from Milton of Tarry Croys; (**181**) from Newburgh, Botriphnie; (**182**) from Aldivalloch, Upper Cabrach; (**183–185**) combined candle-holders and "peermen," with



MG 239, 231, 236, 242, 241, 240.

wooden and iron bases, viz.—(**183**) from Raehill, Grange; (**184**) from Blackbog, Glass; (**185**) from Botriphnie; (**186**) candle-holder, from Stripeside, Botriphnie; (**187**) candlestick and rush-holder of iron, with tripod stand, from Broomhills, Glen of Newmill, Keith; (**188**) candlestick of wood, from Upper Mulben; (**189**) candle-holder, from Tornlea, Cromdale; (**190, 191**) candle-moulds of tin, one for making three, the other four candles; (**192**) folding iron bracket for burning fir-roots; (**193**) bearer of wood for hanging crusie on, from Newburgh, Botriphnie; (**194**) tinder-box, flint and steel, from Grange, and four other steels; (**196, 197**) wooden frame for holding fir candles, and bundle of same; (**198–200**) candle-snuffers of iron, without localities; (**201**) snuffers of iron, from Hill of Echt, Cabrach; (**202**) snuffers of iron, from West Calder; (**203**) base of steatite for "peerman," from Farm of Botary;

MG (**205**) base of mica-schist for "peerman," "which belonged to Robert Dunn, blacksmith, Bogiemuir, founder of Dunn's School;" (**207**) hook for suspending iron "peerman;" (**208–223**) clivies, viz.—(**208**) from Aberlour; (**210**) from Drywells, Cabrach; (**211**) from Keith, Banffshire; (**212**) from Mossend of Mulben; (**213**) from Auchannachy, Ruthven; (**214**) from Moor of Whitehouse, Aberlour; (**215**) from Clockanwells, Boharm; (**216**) from Glass; (**217**) from Newton of Corinacy, Cabrach; (**218**) from Loanhead, Glass; (**219–223**) without localities—*Linn Collection;* (**224**) candlestick of stone for four candles in two tiers, with tailor's "goose" incised on each of two sides, and pair of scissors on back and front, and initials R.B. on the face of the upper tier—*Sturrock Collection;* (**225**) cast of tailor's candlestick of stone for three candles, in form of Roman altar, with "goose" and scissors in relief, and initials I.A. and date 1646 incised, original in Perth Museum—Sir Arthur Mitchell, 1890; (**226, 227**) candlesticks of sandstone, viz.—(**226**) $2\frac{1}{4} \times 1\frac{1}{2}$ in., from Pitferdil; (**227**) $3\frac{1}{4} \times 2$ in., from Aberdeenshire—Purchased 1891; (**228**) three-cornered lantern carried by Lady Grizell Baillie on her nightly visit to her father, Sir Patrick Hume, during his concealment in vault beneath Polwarth Church, 1684—Misses Warrender, 1892; (**229–248**) fourteen steels or "fleerishes," a pocket tinder-box, and five strike-lights of flint, from Banffshire—Rev. Dr Grigor, 1892; (**249**) square lantern of tin, glass on three sides, crown-shaped top—Purchased 1892; (**250, 251**) brass sconces for candles, one with shield of arms, and motto SALUS PER CHRISTUM REDEMTIOREM. [Crusie moulds BG 109–113 are shown below this case.]

[From other Countries.]

In Wall Case opposite Entrance Door, Second Floor.

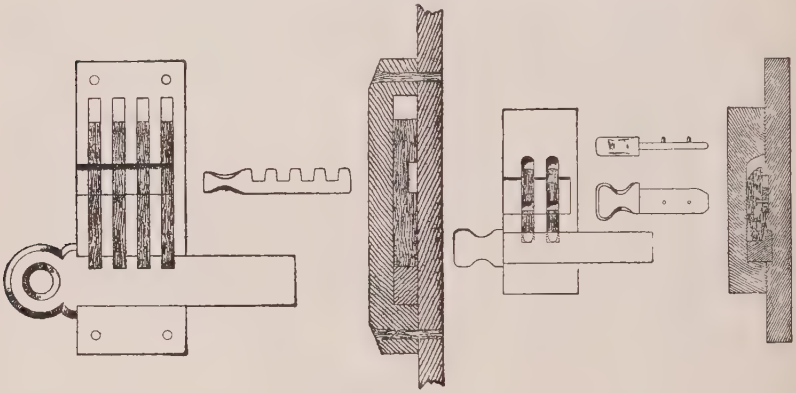
MH 1–19. Viz.—(**1, 2**) candlesticks of brass, viz.—(**1**) with long stem, dug up in London; (**2**) for attachment to bracket—*Bell Collection;* (**3–5**) crusies of iron, viz.—(**3, 4**) from Germany—James Johnstone, 1861; (**5**) from Italy; (**6**) engraved pistol flint and steel fire-striker on stand, with hollow ivory handle—Sir William Fettes Douglas, 1876; (**7**) candlestick and tinder-box of tinned iron, from South of England—Thomas Chapman, junior, 1882; (**8**) pair of iron snuffers dug up in London—Marquess of Breadalbane, 1849; (**9**) brass candlestick, 5 in. long, ornamented in relief, found with coins of Philip of Spain and Mary of England in bog in Tyrone, Ireland—Purchased 1861; (**10**) tinder-box of horn with stopper of wood; (**11, 12**) candlesticks of iron, from England—Purchased 1884; (**13**) miner's lamp of wrought iron, from Bozon Mines, department of Var, France—W. Ivison Macadam, 1884; (**14**) steel with leather pocket for flint, as worn by Hillmen, from Kumaon, Himalayas—H. Rivett-Carnac, 1883; (**15**) small steel with leather pocket for flint, used by natives of Himalayas—Purchased 1884; (**16**) small steel with leather pocket for flint; (**17, 18**) modern strike-lights of agate, used in India—W. F. Sinclair, 1890; (**19**) crusie of brass, with pin for pushing up wick, from Niendorf, Hanover—Purchased 1890.

LOCKS, KEYS, DOOR-KNOCKERS, GRATINGS, &c.

In Floor Case, South Side of Ground Floor.

MJ 1–170. Viz.—(**1–4**) wooden locks, viz.—(**1**) with six keepers, from Snizort, Skye — Horatio Maculloch, 1860; (**2**) with four keepers, from North Ronaldsay, Orkney — Robert Bald, 1833; (**3**) with wooden key, from

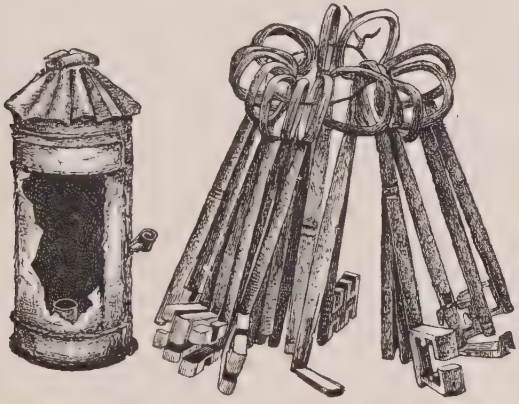
MJ North Ronaldsay—Colonel Balfour, 1863 ; (**4**) with wooden key, from St Kilda—J. Sands, 1878 ; (**5**–**12**) iron locks, viz.—(**5**) with key, from an old house in Jackson's Close, Edinburgh—R. Bryson, 1849 ; (**6**) with key, from Edinburgh—W. G. Davies, 1870 ; (**7**) small, from Cardinal Beaton's House, Cowgate, Edinburgh ; (**8**) of curious workmanship ; (**9**) lock and key of ornamental work ; (**11**) with key—Purchased 1882 ; (**12**)—*Sim Collection ;* (**13**–**41**) padlocks, viz.—(**13**) large, with staple, formerly attached to "Cage" in old Tolbooth, Edinburgh—R. Bryson, 1851 ; (**14**) from old



MJ 2, 4.

jail of Aberdeen—James Cassie, 1871 ; (**15**) iron padlock used by officers of excise at Leith about 1700—Dr D. A. Robertson, 1849 ; (**16**) from old prison at Greenlaw, built to receive French prisoners of war in 1814 ; (**17**) of square form, with staple key, and iron point for opening spring, from old castle of Hall Forest, Kintore, Aberdeenshire—*Watt Collection ;* (**18**) double, with ornamental key ; (**19**) with ornamental key ; (**20**) oblong of brass ; (**21**)—J. Holmes, 1882 ; (**22**)—*Sim Collection ;* (**23**) conical-shaped lock, with key ; (**24**) circular ; (**25**) found in weem at Raits—Sir David Brewster, 1866 ; (**26**) cylindrical, with key, from old kirk of Kintore, Aberdeenshire—*Watt Collection ;* (**28**) with key, from Lochmaben Castle ; (**29**) found in moss at Tortartar, Bracadale, Skye, —Rev. N. Mackinnon, 1867 ; (**30**) dredged up in the Tay at Newburgh ; (**31**) with hasp and key, of curious workmanship, from Boggach, Strathdon, Aberdeenshire—A. Dunbar, 1863 ; (**32**) cylindrical, from Cullen of Buchan, Banffshire—James Paterson, 1867 ; (**33**–**41**) small padlocks ; (**42**) iron lid of safe or treasure-chest of "Darien Company," instituted 1695, with complicated lock of 15 spring bolts—Directors of Bank of Scotland, 1864 ; (**43**) iron chest of similar construction ; (**44**–**107**) keys, viz.—(**44**) large gilt key, from Barnbougle Castle, Linlithgowshire—John Hughes, 1866 ; (**45**, **46**) with hollow wards from mansion of Earl of Crawford, Dundee ; (**47**) found on site of Hospital of our Lady, Leith Wynd—Dr Daniel Wilson, 1850 ; (**48**) with movable ring, from Clockmakers' Land, West Bow, Edinburgh ; (**49**) key of old Scottish mint, South Gray's Close, Edinburgh—Henry Forbes, 1840 ; (**50**) from Craigmillar Castle—Henry Forbes, 1840 ; (**51**, **52**) from Lochmaben Castle ; (**53**) large key, found in wall of old church of Lochmaben, burnt in 1589—Dr Carson, 1831 ; (**54**, **55**) from Lindores Abbey—T. S. Anderson, 1871 ; (**56**, **57**) door-key and bunch of eight cabinet-keys on hook, for suspension to girdle, found in Loch Leven, Kinross-shire—Robert Annan, 1860 ;

MJ (58–60) keys, found in Dunfermline Abbey—Rev. Dr Chalmers, 1861 ; (61) from ruins of Lord Ruthven's House, West Bow—Purchased 1848 ; (62) of brass, from Wick—A. H. Rhind, 1860 ; (63) of curious workmanship, from Falkland Palace—W. W. Hay, 1831 ; (64) from Dryburgh Abbey ; (65) of steel, engraved with flowers and inscribed PRINCESS AMELIA and G.R. below crown—Miss Turner, 1861 ; (66, 67) keys, one inlaid with brass and inscribed M.I.S. 1627—Robert Pitcairn ; (68) key with link and tally, from Bass Rock—R. Henderson, 1883 ; (69) finely-wrought key ; (70) with straight handle ; (71–84) various keys—unknown ; (85) from Cockenzie—Purchased 1849 ; (86) from Cathedral of Lismore, Argyllshire ; (87) from Jedburgh ; (88–97) small keys of bronze and iron ; (98–100) lanthorn and bunch of 25 keys of Deacon



MJ 98–100.

Brodie, executed in 1788 at Old Tolbooth, Edinburgh, for robbing the Excise Office, then situated in Chessel's Court, Canongate—Clerks of the Justiciary Court, 1841 ; (102) belt-clasp and ring for suspending keys ; (103) found on Castle Rock, Edinburgh ; (104) key of Glasgow Tolbooth ; (105–107) various keys and wooden lock—*Sim Collection ;* (108–111) padlocks, viz.—(108) square-shaped, with spring ; (109) cylindrical, of brass ; (111) heart-shaped—*Sim Collection ;* (112–125) tirling pins, viz.—(112) from door of old Scottish mint, South Gray's Close—Dr D. Robertson ; (113) from Cardinal Beaton's house, Blackfriars Wynd ; (114) from old house in Leith—Dr D. Robertson, 1864 ; (115) from old house in Cowgate, Edinburgh ; (116) from Preston House, Mid-Lothian —Dr D. M. Moir, 1849 ; (117) conjoined with door-handle, from Borrowstounness—Prof. J. Y. Simpson, 1849 ; (118, 119) unknown ; (120–122)—*Sim Collection ;* (123, 124) conjoined with latches, from Inverkeithing ; (125) conjoined with latch—Purchased 1882 ; (126) knocker, from old house in High Street, Edinburgh—James Drummond, 1862 ; (127–130) hinges, &c., viz.—(127) hinge of Netherbow Port—*Sim Collection ;* (129) knee portions of hinges of gate in the old city wall at the West Bow, Edinburgh ; (130) knee portion of hinge of the gate of Neidpath Castle, Peeblesshire ; (131–166) locks, keys, &c., viz. —(132–134) small lock and two keys—*Sim Collection ;* (135–137) old key and two padlocks of iron ; (138–140) ornamented lock, key, and door-sneck—R. Carfrae, 1883 ; (141) key, from Bonar Bridge, Sutherland —Purchased, 1883 ; (142–145) door-snecks, from Inverkeithing, one

MJ inscribed I.G., M.F., 1675, the other with tirling pins—Purchased 1883; (**146**) old folding iron key, from Lamington—Purchased 1884; (**147**) handle of press-door—J. T. Irvine, 1880; (**151–155**) four padlocks, one with key, and a key with peculiar wards—Purchased 1884; (**155**) large iron key—Purchased; (**156, 157**) wrought-iron door-snecks with tirling pins—Purchased 1885; (**158**) key of old Broughton Jail—Andrew Kerr, 1885; (**159**) small key, from South Uist—Purchased 1885; (**160**) ornamental door-sneck of wrought iron—James Chisholm, 1887; (**161**) old iron key from house in High Street, Edinburgh—James Chisholm, 1887; (**162**) keyhole and door-sneck plate of wrought iron—Purchased 1888; (**163**) old iron key, from Drywells, Cabrach; (**164**) cylindrical padlock, no locality; (**165**) cylindrical padlock and key, no locality—*Linn Collection;* (**166**) iron key of crypt, from churchyard of Ayr—Charles Bowring, 1889; (**167**) yett or grated iron door, 6 ft. high by 4 ft. broad, from Tower of Dunlop, Ayrshire—Mrs Dalrymple Hay, 1892; (**168, 169**) iron yett or gate, 5 ft. 4 in. by 35 in., and window grating 3 ft. 9 in. by 2 ft. 8 in., from Haddo's Hole, Old St Giles' Church, Edinburgh—Sir W. Gibson Craig, 1861; (**170**) iron knocker, from door of old house in Blackfriars Wynd, Edinburgh—Miss Drummond, 1890.

[From other Countries.]

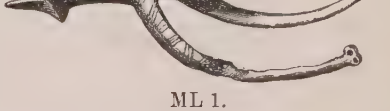
In Wall and Table Cases on Second Floor.

MK 1–49. Viz.—(**1–5**) wooden tumbler locks, viz.—(**1**) with three keepers and key, from Norway—A. C. Hay, 1882; (**2–4**) models—one (**2**) from Persia; (**5**) from Fouchow, China—J. Romilly Allen, 1882; (**6, 7**) iron padlocks, viz.—(**6**) triangular-shaped, from Sebastopol—*Bell Collection;* (**7**) square-shaped, from Norway—A. C. Hay, 1882; (**8–44**) keys, viz.—(**8–17**) of steel (two gilt), from Italy—Jas. Gibson Craig, 1868; (**18**) of bronze, from Ashley, Staffordshire—Lieut. Hardinge, 1862; (**19–21**) of iron—J. T. Irvine, 1880; (**22**) cabinet-key, found in house in which Shakespeare was born, at Stratford-on-Avon—T. Constable, 1873; (**23–29**) found in moat of Tower of London; (**30–34**) found at Moorgate, London—all by Marquess of Breadalbane, 1846; (**35–38**) localities unknown; (**39**) bunch of eleven keys; (**40–43**) finger-ring keys; (**44**) large iron key; (**45**) iron padlock, from Norway—*Lerwick Collection;* (**46, 47**) wooden locks, with their iron keys, from China—J. R. Allen, 1883; (**48**) brass latch-mounting of window, from Lichfield—J. T. Irvine, 1883; (**49**) iron door-knocker, from Ireland—Purchased out of Major Sirr's Collection—C. Galli, 1878.

SPURS, BRIDLES, HORSE-TRAPPINGS, &c.

In Floor Case, East End of Ground Floor.

ML 1–77. Viz.—(**1–44**) spurs, viz.—(**1–3**) found in clearing ruins of Linlithgow Palace—(**1**) prick spur of brass, probably thirteenth century — Treasure Trove, 1862; (**2, 3**) of brass, with shanks curved upwards, rowels wanting—Prof. D. Wilson, 1862; (**9–18**) of iron, viz.—(**9**) with short neck, small rowel, and buckles, found in Linlithgow Loch—Dr B. Seton, 1802; (**10, 11**) from Lochmaben Castle; (**12**) from Bannockburn—Geo. Assioti, 1807; (**13**) E. W. A. D. Hay, 1846; (**14–16**)



ML 1.

ML various; (**18**) with large rowel, fifteenth century; (**19**) with bent shank and large rowel, from Croftside, Stirling—Mrs Brown, 1861; (**20, 21**) of steel, inlaid with silver, said to have belonged to Archbishop Sharpe—D. Manuel, 1838; (**22**) inlaid with silver—E. W. A. D. Hay; (**23**) with bent shank and large rowel, found near Falkirk—A. Baron, 1783; (**24–35**) of brass, viz.—(**24–27**) pair of spurs and pair of stirrups—Alexander Brown, 1782; (**28**) found on Culloden Moor—Purchased 1849; (**29–35**) variously ornamented; (**36**) prick spur of iron; (**37, 38**) of iron; (**39–41**) of brass—*Sim Collection;* (**52**) iron bridle-bit, with cheek-rings of brass, found in May Street, Largs—John Smith, 1822; (**53, 54**) iron bridle-bits; (**53**)—J. Chisholm, 1882; (**54**)—Purchased 1881; (**55–58**) bridle-bits, viz.—(**55**) of steel, enamelled; (**56–58**) side portions of bits of iron and bronze; (**59–65**) stirrups, viz.—(**59–61**) pair, and single stirrup of bronze; (**62**) of iron; (**65**) bronze stirrup—*Sim Collection;* (**66**) horse collar with bells; (**67**) flat ox-shoe, made of a plate of iron; (**68, 69**) horse bells of bronze, viz.—(**68**) 1¼ in. dia., from Invershin, Sutherlandshire—D. Bennett, 1881; (**69**) 1½ in. dia.—*Sim Collection;* (**70**) bridle or gag of cast iron with three rings at side; (**71**) horse bell of bronze; (**72**) bronze or brass mounting, two leopards and masks—David Greig, 1885; (**73–76**) horse bells of bronze—Sir H. E. Maxwell, 1888; (**77**) bridle-bit of iron, with three rings on each side, found on Ben-y-gloe, Perthshire—W. Lamont, 1889.

[From other Countries.]

In Wall Case opposite Entrance Door, Second Floor.

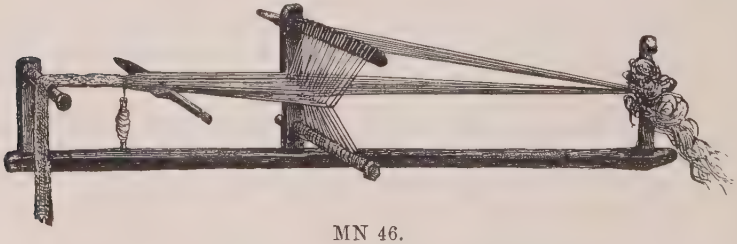
MM 1–73. Viz.—(**1–14**) spurs, viz.—(**1**) of bronze, with large rowel, from Colchester, Essex—E. W. A. D. Hay, 1846; (**2**) of steel, with long neck and rowel of eight points, from Halidon Hill, near Berwick—H. R. Oswald, 1825; (**3, 4**) pair of brass, from battlefield of Lutzen—Sir George Colquhoun, 1781; (**5**) of iron, with short neck and small rowel, from Naseby, Northumberland; (**6**) inlaid with silver, with small rowel—*Bell Collection;* (**7, 8**) spur rowels—*Bell Collection;* (**9–12**) one pair and two single Mexican spurs; (**13, 14**) pair of steel spurs, from Abyssinia—Mr Fairgrieve, 1872; (**15**) bronze ornament, consisting of rings united by series of twisted wires; (**16**) bronze rein-staple, ornamented with incised lines—*Bell Collection;* (**17**) bronze snaffle bridle-bit, from Tracton Abbey, near Cork—Purchased 1837; (**18**) iron snaffle bridle-bit, with large rings, found in ruins of Norham Castle, Northumberland; (**19–47**) viz.—(**19–24**) bridle-bits of bronze and iron; (**25–30**) bronze cheek-rings; (**31–35**) portions of harness; (**36–47**) brass bosses of bridle-bits—*Bell Collection;* (**48–50**) brass bosses, &c.; (**51**) massive shoe-shaped Moorish stirrup of brass—Purchased 1874; (**52, 53**) pair of wooden stirrups, inlaid with lead, from Peru; (**54, 55**) pair of Moorish stirrups of iron, inlaid with gold—A. D. Cowan, 1865; (**56**) horse bridle of plaited strands and iron bit, from Mexico; (**57**) Mexican bridle-bit of iron—J. Chisholm, 1882; (**58**) dog collar, with bells—*Bell Collection;* (**59–72**) horse bells, &c.—*Bell Collection,* &c.; (**73**) bronze ornament of horse trapping, Ireland.

DISTAFFS, SPINDLES, SPINNING-WHEELS, LOOMS, &c.

In Floor Case, South Side of Ground Floor.

MN 1–73. Viz.—(**1, 2**) distaff and spindle, from St Kilda—J. Sands, 1877; (**3–6**) from Carluke, Lanarkshire, viz.—(**3**) distaff, 33½ in. long, finely carved,

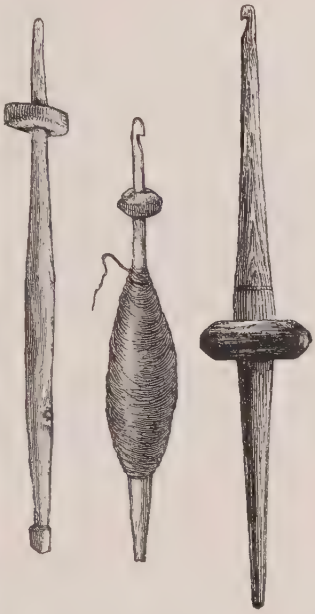
MN bearing initials E.M. and date 1733 ; (**4**) spindle, 6¼ in. long, with whorl of claystone 1 in. dia. ; (**5**) distaff, 31 in. long, carved, bearing initials R.L., M.C., and date 1704 ; (**6**) spindle, 11¾ in. long, with whorl of claystone, 1½ in. dia.—Dr R. Rankin, 1877 ; (**7–15**) spindles, &c., viz.—(**7–12**) spindles—(**7**) 11½ in. long, with whorl of steatite, found in use in Fetlar, Shetland ; (**8**) 11¾ in. long, from Battangorne, Duthil, Inverness-shire ; (**9**) 12½ in. long, from Corriebeg, Kilmallie, Inverness ; (**10**) 14¾ in. long, with woollen yarn on it ; (**11**) 10 in. long, with woollen yarn, and (**12**) potato which had been used on it as whorl, from Daviot, Inverness ; (**13**) piece of steatite, partly made into whorl, bought from maker in Fetlar, Shetland, in 1863 ; (**14**) pair of stockings of spindle-made yarn ; (**15**) spindle, 13 in. long, from Shetland—all by Dr Arthur Mitchell, 1877 ; (**16–20**) spindles with whorls, viz.—(**16**) 13¼ in. long, with whorl of claystone 1⅜ in. dia., from Kinclaven, Perthshire—Rev. John Brown, 1880 ; (**17**) 10 in. long, with whorl 2 in. dia., used by mother of donor, West Calder—Thomas Bryce, 1855 ; (**18**) 13¼ in. long, with whorl of sandstone 1⅞ in. dia. ; (**19**) bent, 16 in. long, with whorl 1½ in. dia. ; (**20**) 15¾ in. long, with rudely-made whorl ; (**21**) spindle, 8½ in. long, with whorl of oak, from Blairshinnock, Banffshire—Peter Collier ; (**22–25**) spindles and distaff, viz.—(**22**) 11½ in. long, with whorl of slaty stone ; (**23**) 8 in. long, and whorl ; (**24**) 8¾ in. long, with bundle of yarn ; (**25**) distaff, carved and dated 1747—*Sim Collection ;* (**26–30**) distaffs, viz.—(**26**) 27 in. long ; (**27**) carved, 23 in. long ; (**28**) carved, 27 in. long—Purchased ; (**29**) inscribed H.A. 1759 ; (**30**) inlaid with ivory ; (**31, 32**) spindles, 11½ and 8½ in. long, from Colonsay—William Stevenson, 1881 ; (**33**) spindle, 14½ in. long, from Bonar Bridge, Sutherlandshire—Purchased 1883 ; (**34–38**) spindle, 18 in. long, and whorl, from Strachur, Argyllshire ; (**35–37**) two whorls of stone and one of lead, with iron hooks, used for twisting "imps," from Eyemouth ; (**38**) large earthenware whorl, from Eyemouth—W. Ivison Macadam, 1881 ; (**39**) carved knitting-sheath of wood ; (**40**) spinning-wheel of birch, 32 in. high, given as prize to be competed for by farmers' daughters of neighbourhood by Lady Menzies of Castle Menzies, 1740—Robert L. Reid, 1877 ; (**41**) spinning-wheel of birch and mahogany, mounted with ivory—James Drummond, 1877 ; (**42**) spinning-wheel of iron—John Glen, 1881 ; (**43**) hand-reel for winding yarn, from Corpach, Kilmailie, Inverness-shire — Dr Arthur Mitchell, 1877 ; (**44**) hand-reel, from Carluke, Lanarkshire—D. R. Rankin, 1877 ; (**45**) hand-reel, from Lanarkshire—*Sim Collection ;* (**46**) old loom for weaving waistband tape,



MN 46.

from West Calder—Rev. George Murray, 1881 ; (**47**) old Scottish tape for braces, from Carsphairn, Kirkcudbrightshire—Rev. George Murray, 1881 ; (**49**) hand-loom for weaving garters in Fair Isle, Shetland—John Bruce, 1883 ; (**50**) Shetland loom for weaving garters—*Lerwick Collection ;* (**51**) fringe weaving-machine—Purchased 1882 ; (**52**) yarn-winder with yarn, from Bonar Bridge, Sutherland—Purchased 1883 ; (**54**) old wooden

MN 3, 5.



MN 7, 11, 17.

MN 43.

MN 35.

MN 36.

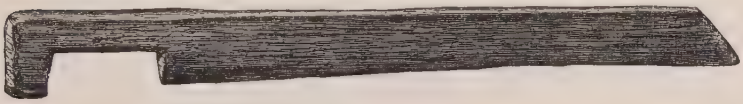
MN spinning-wheel, from Shetland—George Bruce, 1884 ; (**55**) wooden stand which had been used as whorl for twisting "imps," from Colonsay—Donald Maclean, 1882 ; (**56, 57**) rocks or distaffs, both carved, one dated 1749, and with initials I.B., no localities—*Linn Collection ;* (**58–65**) spindles and whorls of wood, viz.—(**58**) from Glen Rinnes ; (**59**) from Haughs of Grange, Banffshire ; (**60**) from White House, Aberlour ; (**61–63**) without localities ; (**64**) whorl, from Broomhill, Keith ; (**65**) straw-rope twister — *Linn Collection ;* (**66**) spindle, from old house in Leith, imperfect ; (**67**) hand spinning-wheel of wood—Miss Phoebe Blyth, 1892 ; (**68**) spindle with whorl of leather, from Orkney—Purchased 1888 ; (**69**) fringe weaving-machine, from Cowdenbeath, Fifeshire—Dr R. de Brus Trotter, 1891 ; (**70**) knitting-sheath, inlaid—Purchased 1891 ; (**71**) finely-worked sampler, dated 1781, in frame—Robert Carfrae, 1890 ; (**72**) sampler of silk with ornamental and floral designs, and ELENOR MADDOCKES 1660—J. T. Irvine, 1883 ; (**73**) sampler, marked "ELISABETH BELL, HER SAMPLER," in frame—Purchased 1891.

TOOLS, IMPLEMENTS, AND MISCELLANEOUS.

In Floor Cases and on Wall of Ground Floor.

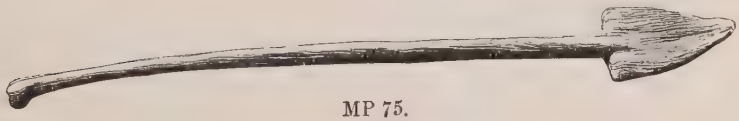
MP 1–219. Viz.—(**1–8**) masons' chisels, viz.—(**1**) found imbedded in the masonry of a pillar in Trinity College Church, Edinburgh—Dr D. Wilson, 1849 ; (**2**) found in altering fireplace in Queen Mary's Room, Edinburgh Castle, 1848—John Henderson, 1848 ; (**3**) found in wall of Holyrood Church—H. Elder, 1828 ; (**4, 5**) from Linlithgow Palace ; (**6**) from Cardinal Beaton's House, Blackfriars Wynd, Edinburgh—Daniel Hossack, 1870 ; (**7**) socketed chisel, dredged up from Tay ; (**8**) found in Old Bridge, Glasgow—*Sim Collection ;* (**9–14**) hammers of iron, viz.—(**9**) from Linlithgow Palace ; (**12**) found at Camelon, Stirlingshire—James Gibson, 1812 ; (**13**) hammer with perforated end—*Sim Collection ;* (**14**) claw-hammer, locality unknown ; (**15–30**) axe-heads of iron, viz.—(**15**) from Birse Castle, Aberdeenshire ; (**16**) from Learagan, Rannoch, Perthshire—J. Campbell, 1862 ; (**17**) found imbedded in Half-moon Battery, Edinburgh Castle ; (**18**) found in making road near Duddingston — H.M. Board of Works, 1856 ; (**20**) found at Lochmaben Castle ; (**24**) found under 5 feet of peat at Hunthill, Lethnott, Forfarshire—D. Philip, 1883 ; (**26, 28**) localities unknown ; (**30**) mattock, found near Luggat Castle, Stow—R. Smellie, 1870 ; (**31**) pick, found under a cairn on the Hill of Bucharn, Yartly, Aberdeenshire—John Stuart, 1853 ; (**32**) oaken measure, containing 52 cubic inches, made by Rev. Alexander Bryce, minister of Kirknewton, for measuring his stipend, then partly paid in kind—Lieutenant-Colonel G. L. Bryce, 1879 ; (**33, 34**) carpenters' tools, viz.—(**33**) plane, inscribed P.F. 1668 ; (**34**) brace and bit, found under flooring of old house in West Bow, Edinburgh—James Drummond, 1849 ; (**35**) small steel hammer, richly ornamented, inscribed STEPHEN WALLIS—Mrs J. T. Irvine, 1868 ; (**36**) "clove" or implement for stripping flax, from Gass, Kirkcowan—Sir H. E. Maxwell, 1891 ; (**37**) boat-hook, found 18 ft. deep in Carse of Gowrie—Mr Bell, 1848 ; (**38**) implement used for stripping hemp—John Paton, 1867 ; (**39**) iron chain and pot-hooks, from Aberfoyle, Perthshire—Dr D. H. Robertson, 1865 ; (**40**) iron anchor, 6 ft. long, found in meadow near Kirkcudbright—Rev. John Milligan, 1868 ; (**41**) carpenter's brace and bit, carved—Purchased 1892 ; (**42**) leister or eel-spear, from Lochee—Robert Gellatly ; (**43, 44**) rollers for flattening silver, from old Scottish mint — J. S. Simpson, 1892 ; (**45, 46**) presses for dies, used in old Scottish mint ; (**47, 49**) lint heckle and rippling comb ; (**50, 51**) plates of two pages of *Sallust*, the first

MP work stereotyped in Edinburgh—William Tytler, 1781 ; (**52–54**) portions of lead piping, viz.—(**52**) from High Street of Haddington—James Robb, 1870 ; (**53**) found near the ruins of Kilwinning Abbey, Ayrshire—John Smith, 1828 ; (**54**) found between Hay's Well and the Abbey of Arbroath—Rev. W. Duke, 1879 ; (**55**) portion of wooden implement, found in excavating Court Hill, Dalry, Ayrshire, 1873 ; (**56–58**) wooden implements, viz.—(**56**) "beetle" for beetling clothes, from Colonsay ; (**57**) hand-lint skutch, from Colonsay—James Munn, 1881 ; (**58**) found in moss at Slains—James Dalgarno, 1877 ; (**59**) fragment of leather tanned by natives of St Kilda ; (**60**) "crocan" of wood used anciently in Hebrides for hanging pots over the fire ; (**61, 62**) old wooden fishing-reels, viz.—(**61**) with shagreen case—R. Bryson ; (**62**) with lengthened axle ; (**63**) standard yard-measure of city of Edinburgh, with initials of Patrick



MP 57.

Lindsay, Dean of Guild (1726)—David Laing, 1862 ; (**64**) old Scots ell-wand or pedlar's measure, 37 in. long, dated 1734 ; (**65**) spring rattle of wood, used as fire-alarm in Edinburgh about beginning of present century—David Laing, 1846 ; (**66, 67**) bread-spades of iron for turning oat cakes upon girdle, from Aberdeenshire—John Rae, 1880 ; (**68**) implement called kail-gully, with wooden handle, 19 in. long, terminating in S-shaped blade—John Rae, 1880 ; (**69**) cream whisk ; (**70**) shank-holder of deer-horn with iron frame—Dr D. H. Robertson, 1866 ; (**71**) small box smoothing-iron ; (**72**) old Scotch carved oak bellows—*Sim Collection ;* (**73**) iron axe-head, found 17 feet under surface, near river Spey at Garmouth—William Ferguson, 1884 ; (**74**) portion of lead piping, with joint, from Castle Campbell, near Dollar—Dr G. A. Walker, 1884 ; (**75–80**) spades, viz.—(**75**) of oak, 3 feet 7 in. long, found in old coal-



MP 75.

mine near Glasgow—Sir A. Edmondstone, 1863 ; (**76**) 56 in. long, found under 6 feet of moss at Aldie, Cruden, Aberdeenshire—James Shepherd, 1876 ; (**77**) "ceaba," one-sided and shod with iron, 63 in. long, from Islay—Dr Arthur Mitchell, 1863 ; (**78**) 50 in. long, with foot-bar, from Shetland—Dr A. Mitchell, 1877 ; (**79**) 52 in. long, for cutting peats, from Shetland—Dr Mitchell, 1877 ; (**80**) turf-spade, 39 in. long, with cross handle 36 in., from Shetland—G. H. Thoms, 1878 ; (**81, 82**) one-stilted ploughs, from Shetland, viz.—(**81**) from Cunningsburgh—Dr A. Mitchell, 1877 ; (**82**) *Lerwick Collection ;* (**83**) Shetland scythe, with straight handle 87 in.

MP long, blade 14½ in. long—Dr A. Mitchell, 1877; (**84**) wooden ox-yoke, found under 6 feet of peat in "White Moss," Shapinsay, Orkney—Col. Balfour, 1868; (**86, 87**) bismars, from Shetland, (**86**) brass-mounted—Dr A. Mitchell, 1877; (**88**) old hay-weight of stone, from Orkney—Barons of Exchequer, 1838; (**89**) pundlar, from Orkney—James Maconochie, 1838; (**90**) threshing-flail, from Colonsay—William Stevenson, 1882; (**91**) stone weight (28 lbs.), with iron handle, found underneath floor of St Giles' Church—William Chambers, LL.D., 1883; (**92–99**) wooden ball, 7 in. dia., and 7 pins, each 13 in. long, found in moss in parish of Balmaclellan, Galloway — James Nicolson, 1865; (**100, 101**) wrought-iron toasters, from Inverkeithing—Purchased 1883; (**102**) portion of hair rope, used by cragsmen of St Kilda—J. Sands, 1877; (**103–112**) dies and stamps for Scottish coins and tokens, from the old Scottish mint; (**113**) Scottish tally-stick, bearing date 1692, found attached to bundle of old law-papers in Council Chambers, Edinburgh—Dr Daniel Wilson, 1848; (**114**) tally-stick, inscribed "John Bushby, Keith Stewart, 1778 to 1793"—Patrick Malloch, 1861; (**115**) milk tally-stick, used in island of Harris in 1879—E. G. Duff; (**116, 117**) weighing-machines of iron, viz.—(**116**) spring weighing-machine; (**117**) with lever and sliding weight; (**118, 119**) one-sided wooden spade and wooden implement resembling paddle, both found in moss in Wigtownshire—Earl of Stair, 1882; (**120**) iron sock of old wooden plough, from Aboyne, Aberdeenshire—Purchased 1883; (**121**) iron axe-head—Purchased 1891; (**122**) spiked collar of iron, from Sutherlandshire—Purchased 1883; (**123**) lancet-case, said to have belonged to William Faa, the gipsy king—Sir Walter Simpson, Bart.; (**124**) iron shod of peat-spade, from Brechin, 1865; (**125–128**) bulls' nose-rings; (**125**) from Aberdeenshire—Adam Rettie, 1875; (**129**) old German phlebotomus or fleam—D. M. Moir, M.D., 1849; (**130, 131**) cupping-horns, from Shetland; (**134**) large rat-trap of iron—Purchased 1884; (**135–140**) coin weights, scales, &c., viz.—(**136**) ditto—Dr William Moncrieff, 1824; (**137**) ditto, made in Amsterdam—Rev. D. J. Jamieson; (**141–148**) balances, &c., viz.—(**141**) of brass, in brass case—Dr R. Huie; (**142–145**) delicate small balances and scales, formerly in use in old Scottish mint—J. S. Simpson, 1829, &c.; (**146**) balance of bronze, imperfect; (**147**) of brass; (**148**) money-changer's steel-yard; (**149–172**) miscellaneous, viz.—(**149**) old mouse-trap of oak, with spring lever and catch—Rev. J. Gammack; (**150**) iron implement with hook; (**151**) implement of wrought iron; (**153**) knife for cutting sugar-cane—Rev. Dr Taylor, 1878; (**155**) small sickle-shaped implement —*Bell Collection;* (**156**) small plate of brass in form of death's-head, from Longman Macduff, Banffshire—J. Paterson; (**157**) bronze disc with diapered pattern, from Swinton Bridge, Berwickshire; (**158**) old curling-

MP 83.

MP stone, with iron handle, from Borgue Farm, Kirkcudbrightshire—John M'Laren, 1885; (**159**) wooden box covered with *cuir bouilli*, ornamented

MP 84.

—Purchased 1885; (**160**) tailor's smoothing-iron, from Blairgowrie—T. Chapman, 1885; (**161**) iron axe-head, from Boat, Kincardine O'Neil—Purchased 1886; (**163**) wooden implement—James Chisholm, 1887; (**164, 165**) axe-heads of iron, from Aberdeenshire—Purchased 1887; (**167, 168**)

MP 113.

cock-spurs used in cock-fighting—Thomas Ross, 1888; (**169–171**) fir gullie, from Strachan, Banchory; bannock-spade and ladle, from Birse Kincardineshire, and dubrach, for poaching sea-trout, from Pannanich, Deeside—Purchased 1888; (**172**) piping-iron and screw—Purchased 1888; (**175–186**) tools, &c., viz.—(**175**) comb for carding wool, from Cairnie, Aberdeenshire; (**181**) iron-head of leister or eel-spear; (**182**) large three-pronged implement, resembling a leister; (**185**) spud used for cleaning wooden plough, from Loanhead; (**186**) ell-wand, from Broomhills, Keith—*Linn Collection;* (**187–193**) fir gullies or tyaave knives, viz.—(**187, 188**) from Woodside of Mulderie, Keith; (**191**) from Berryhillock, Deskford; (**193**) from Fifekeith—*ibid.;* (**196–201**) set of fish-hook maker's tools, from Newmill—*ibid.;* (**202–204**) set of farrier's tools, from Bootree, Botriphnie—*ibid.;* (**206**) cas-chrom or foot-plough, from Strome Ferry—*ibid.;* (**208**) wooden swivel, $7\frac{1}{4} \times 2 \times 1$ in., from Orkney—Purchased; (**209, 210**) triangular-shaped piece of wood, $19\frac{1}{2}$ in. long, 5 in. across the widest end, with two holes through centre, and portion of another wooden implement, from Kirkchrist, Penninghame, Wigtownshire—Purchased 1888; (**211, 212**) curling-stones, viz.—(**211**) with notch on each face for the fingers, from old house in Edinburgh—Purchased 1886; (**212**) with letter w incised on top, and with finger-hole—Treasure Trove, Deposited 1887; (**213, 214**) Shetland wool-

MP 206.

MP combs, with iron teeth, mounted in handles of horn and wood—Purchased 1889; (**215**) axe-head of iron, 6¼ in. long, with circular haft-hole, found near Burghead, Elginshire—H. W. Young, 1890; (**216**) small box made from solid piece of wood, ornamented with incised carving and with sliding lid—*Sturrock Collection;* (**219**) yoke of wood, 41½ in. long, from moss near Lochnell, Argyllshire—Hubert Paton, 1890.

[From other Countries.]

In Wall Case opposite Entrance Door on Second Floor.

MQ 1-14. Viz.—(**1, 2**) mason's trowel, and leister or eel-spear, found in the moat of the Tower of London; (**3**) horse curry-comb of iron—*Bell Collection;* (**4**) stone weight (granite), with iron ring—*ibid.;* (**5**) copper cover of iron potheen still, 11 in. dia., 14 in. deep, the pipe 20 in. long, from County West Meath, Ireland—Erskine Nicol, 1881; (**6-8**) bone implements dug up in London; (**9-13**) bone skates, viz.—(**9**) from Stixwold Ferry, near Lincoln—Arthur Trollope, 1848; (**10-12**) dug up in Moorfields, London—C. Roach Smith, 1849; (**13**) found at Arches, Lincoln; (**14**) ox-yoke of oak—*Bell Collection.*

INSTRUMENTS OF PUNISHMENT, TORTURE, &c.

On Ground Floor, East End.

MR 1—40. Viz.—(**1**) "*The Maiden,*" the instrument used for beheading criminals in Edinburgh, and by which many persons were executed, including Regent Morton in 1581, Sir John Gordon of Haddo in 1644, President Spottiswoode in 1645, Marquess of Argyll in 1661, Earl of Argyll in 1685, &c.—Lord Provost and Magistrates of Edinburgh, 1797; (**2**) "*The Stocks,*" from old Canongate Tolbooth—Prison Board of Edinburgh, 1874; (**3**) brass collar, found in Forth at Logie, Stirlingshire, inscribed ALEXR. STEUART FOUND GUILTY OF DEATH FOR THEFT AT PERTH THE 5TH OF DECEMBER 1701, AND GIFTED BY THE JUSTICIARS AS A PERPETUAL SERVANT TO SIR JO. ARESKIN OF ALVA—William M'Killope, 1784; (**4**) pair of manacles and chain, found in digging on Hatton Farm, Largo, Fifeshire—Rev. Dr Alexander Gray, 1838; (**5**) handcuffs used for securing Watt, one of the "Friends of the People," executed for treason at Edinburgh, 1794—Miss Walker, 1841; (**6**) the "gaud" or iron bar, with chain and fetters for ankles, by which criminals condemned to death were formerly secured in Old Tolbooth, Edinburgh—Edinburgh County Prison Board, 1859; (**7**) iron girdle with manacle on each side, formerly used in Old Tolbooth of Edinburgh—William B. Johnstone, 1861; (**8, 9**); iron fetterlocks, found in Old Tolbooth or Heart of Mid-Lothian, when demolished in 1817—David Moir, 1849; (**10**) repentance stool, formerly used in Old Greyfriars' Church, Edinburgh—Miss C. Hogarth, 1864; (**11**) sackcloth or "Gown of Repentance," formerly used in parish church of West Calder—Rev. J. Muckersy, 1806; (**12, 13**) the "jougs," or jointed collars of iron, viz.—(**12**) fixed in stone of gate-pillar, from churchyard of Galashiels, Selkirkshire—Sir Wm. Jardine, Bart.; (**13**) from church in East Fife—Sir J. Noel Paton, 1875; (**14**) jougs, with padlock and key, from old church of Clova, Forfarshire—Robert Forrest, 1871; (**15**) jougs, from Shrub Hill, Trinity, formerly called Gallow-Ha—C. L. Montignani, 1881; (**16-21**) thumbscrews,

MR formerly used as instruments of torture, and for extorting confession, viz.

MR 1.

—(16) with chain and key, formerly used by authorities of town of Mon-

MR trose—R. Mayne, 1850 ; (17) mounted with brass, used by Scottish Privy Council, chiefly in trials of Covenanters in seventeenth century—Thomas

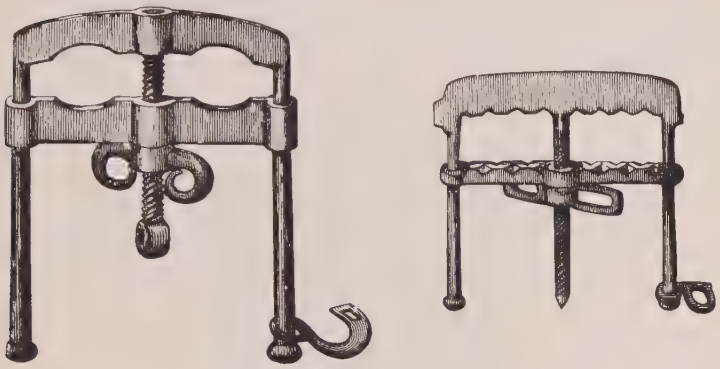
MR 10.

Rattray, 1781 ; (18) similar thumbikins—W W. H. Newton, 1858 ; (19) with notched edges—Sir J. Noel Paton, 1875 ; (20) small steel thumbikins,

MR 14.

with semicircular openings, and separately working screws ; (21)—*Sim Collection ;* (22–24) the "branks" or iron gag : the bars being jointed, enclosed the head, and were secured behind, the projecting plate at same

MR time passing into mouth over tongue, viz.—(**22**) by J. M. Brown, 1848;



MR 16, 19.

(**23**) with rowel-shaped gag, from town in east Fifeshire—Sir J. Noel Paton; (**24**) with chain—*Sim Collection;* (**25**) mantrap of iron—G. T. Cranstoun, 1872; (**26**) jougs, locality unknown — A. W. Inglis, 1892; (**28, 29**) iron manacles, viz.—(**28**) with key, used in Dornoch Jail, Sutherlandshire—Dr Lawson Tait, 1870; (**29**)—Presented by Alexander Stewart, 1840; (**30**) fragment of "jougs" from Alloway Kirk—*Sim Collection;* (**31**) belt of penance of iron wire, formerly in possession of family of Crawford of Cartsburn, to whom it had been given by Romish priest in 1771—Robert Fraser, 1845; (**32**) flagellum of iron wire, 22 in. long, with cluster of five pieces of chain, each 5 in. long—Purchased 1869; (**33**) large iron fetterlocks or "bilboa" irons, from Dundee—John Sturrock, 1883; (**34**) "life-preserver" of iron, which, on attempting to wrest from a person, causes 8 small blades to issue from the sides; (**35**) iron collar with spikes—Purchased 1884; (**36–39**) manacles, with chains—*Sim Collection.*

MR 23.

[From other Countries.]

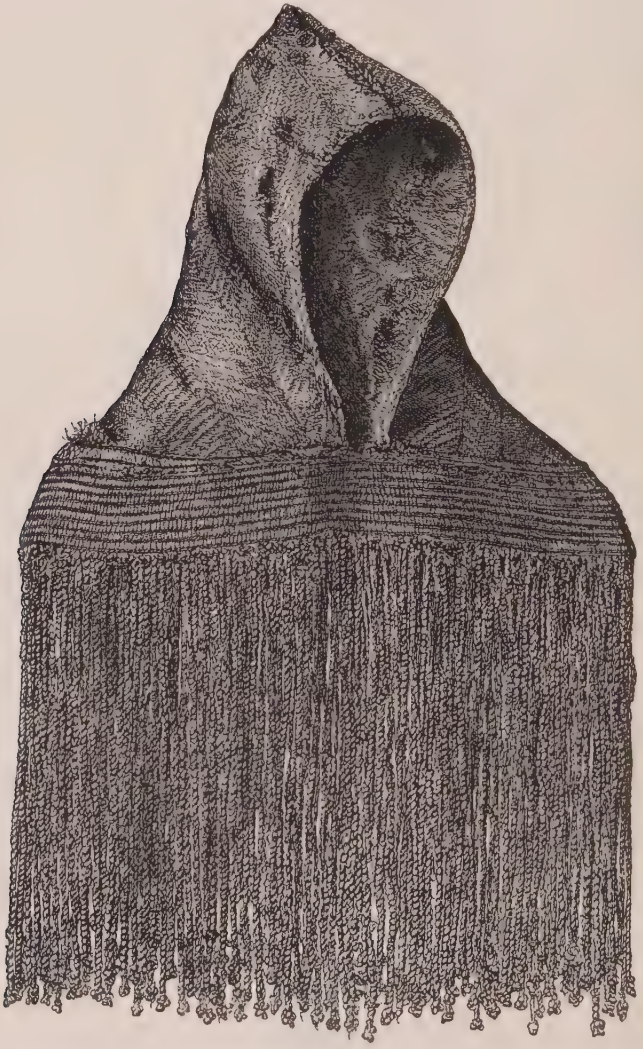
In Floor Case on Ground Floor.

MS 1. Pair of Thumbscrews, with key, from Rome, Italy—W. Fettes Douglas, R.S.A., 1860.

ARTICLES OF DRESS AND PERSONAL USE.

In Window Cases, South Side of Ground Floor.

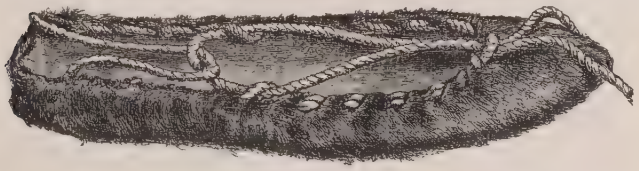
NA 1-315. Viz.—(1) portion of woven garment of vegetable fibre, found in cist



NA 3.

near Kelso Abbey—Prof. Turner, 1865; (2) fragments of cloth, found with

NA skeleton in bog at Birsay, Orkney—J. M. Macbeath, 1881; (**3**) hood of woollen fabric, with knotted fringe, found in moss in St Andrew's Parish, Orkney—*Petrie Collection*, Purchased 1867; (**4, 5**)portions of dress of woollen fabric and of leather shoe, found with skeletons in moss at Culrain, Rossshire—William Bennett and Thomas Mackenzie, 1880; (**6**) fragment of woollen dress and lock of hair, found in moss on Hill of Norsewick, Mainland, Shetland—Dr B. Bell, 1852; (**7–9**) *rivlins* or shoes of untanned



NA 7.

hide, from Shetland, viz.—(**7, 8**)—Gilbert Goudie, 1873; (**9**)—Dr Arthur Mitchell; (**12–20**) old sandals and shoes, viz.—(**12**) dug up in Magdalen Yard, Dundee—A. Sutherland, 1827; (**13**) old Celtic shoe, with open work, found 6 ft. below the surface, near Callander, Perthshire; (**14, 15**) pair of soles, found in "Moray Vault," under St Giles' Church—A. Ritchie, 1837; (**16–20**) old leather shoes; (**21–43**) ladies' dress shoes, viz.—(**21–23**) high-heeled shoe of satin and pair of clogs; (**25**) of crimson satin, with plated buckles—George Sim, 1863; (**26, 27**) of black satin, with white border; (**28, 29**) of black satin, with high heels and bows of satin ribbon—Dr J. A. Smith, 1861; (**30, 31**) of white satin, with pointed toes; (**32, 33**) pair of orange-coloured slippers, with tassels of yellow silk and small steel buckles—Dr J. A. Smith, 1861; (**34, 35**) lemon-coloured slippers, with narrow pointed toes—Dr J. A. Smith, 1861; (**36, 37**) high-heeled embroidered shoes; (**38, 39**) low-heeled silver-embroidered shoes; (**40, 41**) sky-blue satin high-heeled shoes—Mrs David Stewart, 1862; (**42, 43**) pair of shoes marked J + RYAN on instep; (**44–104**) specimens of shoe buckles of seventeenth and eighteenth centuries; (**105–107**) gloves, viz.—(**105**) lady's hawking glove, embroidered—Thomas Hardie, 1865; (**106, 107**) pair of white leather gloves, embroidered with black silk, said to have belonged to Mary Queen of Scots—George Cairncross, 1788; (**108**) lady's fan, with devices commemorative of Union of Scotland and England, 1707—C. Mowbray, 1810; (**109**) tortoise-shell comb of seventeenth century, $9\frac{3}{4} \times 6\frac{1}{4}$ in.—Miss Macfarlane, 1783; (**110, 111**) combs, viz.—(**110**) of wood, found in fosse at Lochmaben Castle — W. Murray, 1851; (**111**) ornamented ivory comb, found in ruins of nunnery at North Berwick—Purchased 1883; (**112**) piece of velvet robes worn by Earl of Nithsdale, attainted in 1715—J. Anderson, 1825; (**113–132**) barnacles or spectacles, eye-glasses, &c., in frames of horn, steel, &c., and cases of wood, steel, and pasteboard; (**133–136**) thimbles of various descriptions; (**138–148**) roundlets of pipe-clay, for dressing curls of wigs; (**149**) steel scissors-case of perforated work; (**150**) comb of tortoise-shell, from Shian, Perthshire—Mrs J. R. D'Olier; (**151–157**) old home-made buttons of bone, viz.—(**151, 152**) from Sanday, Orkney, the remainder from Highlands—Rev. D. M'Taggart, 1882; (**158**) bone comb dug up at Perth—Purchased 1879; (**159**) brass belt-keeper, from Udny—C. S. Temple, 1864; (**160–182**) brass belt-buckles, ornaments, &c., viz.—(**178–182**)—*Sim Collection;* (**183–188**) buckle-clasps and mountings of silver and bronze, from Montrose—Treasure Trove, 1862; (**189–197**) bodkins and miscellaneous articles; (**198**)

NA "trot-cosy" or hood and cape of blue cloth—John Berry, 1872; (**199**) etui-case of Egyptian jasper and pinchbeck and implements—John E. Vernon, 1862; (**200**) etui-case containing silver tooth- and ear-pick—Joseph Edmonstone, 1783; (**201–203**) small rouge-box and two pounce-boxes; (**204**) pin-cushion, with ribbon, on which is woven "GOD BLESS P. C. AND DOWN WITH THE RUMP"—Miss Ingleton, 1863; (**205–219**) knitted caps, socks, &c., from Fair Isle—Thomas Edmonston, 1870; (**220**) embroidered needle and scissors case and pin-cushion combined; (**221**) four bone pins—*Sim Collection;* (**222**) waistband tape woven in primitive loom at Balmaclellan, New Galloway, 1867—Dr Arthur Mitchell, 1877; (**223**) circular jewel-box with portrait of Prince Charles Edward Stuart—Col. Birch, 1843; (**224**) brass comb with iron teeth, ornamented with four hearts, and the initials M.J.—Purchased 1883; (**225–248**) twelve pairs of shoe buckles—Purchased 1884; (**249**) cap of brown felt, partly ornamented by blue yarn, imperfect, from moss in Shetland—Charles Rampini, 1884; (**255–257**) jewel caskets of iron, viz.—(**255**) ornamented with gold arabesques, $3\frac{1}{4}$ in. long, 3 in. high, with rounded top (*formerly in Shandon Collection*)—R. M. Smith, 1880; (**256**) with two locks, found in old house in High Street, Edinburgh; (**257**) with round top, minus lock, found in ruins, Coupar-Angus—Dr Robertson; (**258, 259**) combs, one of wood, the other of bone, from Hercus, Berwickshire—Purchased 1885; (**260**) large carved wooden shoe (*Klompen*)—Purchased 1885; (**261, 262**) leather brogues, from Uist—Purchased 1885; (**263**) pewter button, found in Edinburgh—Andrew Kerr, 1886; (**264**) carved walking-stick, made by James Robertson of Kincraigie (see Kay's *Portraits*, Nos. 2 and 124)—William Hunter, 1886; (**265**) goggle-case of wood, from near Biggar—P. R. Haddow, 1887; (**266–274**) pins of copper-sheathing and bone, and rudely made pair of compasses, from Illeray, North Uist — Purchased 1887; (**275**) jewel casket of iron, $9\frac{1}{4} \times 4\frac{1}{4} \times 4\frac{3}{4}$ in., with ring handles, double-lock and key — Edwin Millidge, 1887; (**276**) small wooden box, covered with embroidery—Purchased 1887; (**277**) small pin-cushion of crimson velvet, bound with silver—Miss Fraser, 1888; (**278–280**) eye-glasses, found under gallery floor of old church, Dundee—Purchased 1888; (**281–287**) bone pins, from $1\frac{7}{8}$ to $2\frac{3}{4}$ in. long, from North Uist—Purchased 1888; (**288, 289**) spectacles, with iron rims; (**290–296**) buckles, &c., of brass; (**297**) fragments of cloth dug up in moss in Dunrossness, Shetland—Purchased 1887; (**298, 299**) thread-winders of silver, in form of six-rayed stars; (**300**) buckle of brass, broken, from Croy, Inverness-shire—Purchased 1887; (**301**) brass buckle from Grantown, Auchnagallin—*Linn Collection;* (**302**) buckle of bronze, found with FC 3, 4, at Crieff—Mrs Young, 1888; (**303**) buckle of brass, with paste settings, from Braemar—Purchased 1890; (**304**) brass button from Whitedalehead, Whitburn—*Linn Collection;* (**305**) portions of braiding, found on piece of mouldering cloth in air-hole of tower of Linlithgow Palace; (**306**) knitted purse of silk thread; (**307**) portions of woollen cloth, from cist at Greenigoe, Orphir, Orkney—J. Walls Cursiter, 1889; (**308–314**) bone needle, two bone pins, and pins of copper wire, from Uist—Purchased 1889; (**315**) shaving-box of wood, with masonic emblems and "IAMES ROSS, MAY 1807 — JOHN GRANT his Box"—Purchased 1888.

[From other Countries.]

In Wall Case opposite Entrance Door on Second Floor.

NB 1–38. Viz.—(**1**) portion of knitted fabric, found in cist near Micklegate Bar, York—Dr S. H. Ware, 1838; (**2–13**) fragments of old shoes of fourteenth century, &c., dug up in London—C. Roach Smith, 1849; (**14**) iron ring

NB of wooden clog, found in Thames—C. R. Smith, 1849 ; (**15**) wooden comb dug up in Moorgate Street, London—(**16–21**) fragments of bone combs, dug up in Dublin ; (**22–25**) French military buttons of cast brass ; (**26, 27**) enamelled belt-clasps, from Italy—Sir A. Edmonstone, 1864 ; (**28–31**) two pairs wooden pattens, with iron rings, as used at present day at Ashford, Derbyshire—Sheriff Thoms ; (**32, 33**) pair of cuarans or shoes of untanned hide, from Isle of Man—James Grierson, 1828 ; (**34–38**) bone implements and portion of stamped leather, dug up near the Post Office, St Martin's-le-Grand, London—Marquess of Breadalbane, 1849.

BADGES, INSIGNIA, UNIFORMS, &c.

In Window and Table Cases and on Wall, South Side of Ground Floor.

NC 1–78. Viz.—(**1**) leather cap, mounted with velvet, found behind wood lining in old apartment in Holyrood Palace—James Ritchie, 1830 ; (**2**) cap worn by Sir Walter Scott when trooper in Mid-Lothian Volunteer Yeomanry—William Trotter, 1833 ; (**3**) old Edinburgh fireman's helmet of leather, lined with iron, and having the city arms on front, 1720—Fletcher Yetts, 1806 ; (**4**) uniform tunic of First Regiment of Edinburgh Volunteers, raised in 1803 and finally disbanded in 1822 ; (**5–7**) embroidered uniform coat and two cocked hats, formerly worn by Old Town Guard—Edinburgh Town-Council ; (**8, 9**) cloth caps, embroidered with armorial bearings and supporters ; (**10, 11**) academic gown and cap worn by Alexander Henderson, A.M., minister of Edinburgh, when Rector of University (1640–1646) ; (**12–14**) two flat black cloth bonnets, used by doctors in seventeenth century—Senatus Academicus of Edinburgh University, 1862 ; (**14**) old three-cornered hat ; (**15–19**) insignia of Cape Club (a convivial society founded in 1793 and dissolved in 1843), viz.—(**15, 16**) large steel pokers ; (**17**) cap of crimson silk velvet ; (**18**) member's diploma ; (**19**) painted panel with insignia of club ; (**20–27**) insignia of the Constables of the Barony of the Calton, Edinburgh, viz.—(**20–24**) painted and silver-mounted batons ; (**25**) silver-mounted snuff-horn, with moderators' medals attached ; (**26**) marble punch-bowl ; (**27**) document presenting the insignia, framed and glazed—Presented by members on extinction of Barony of Calton, 1856 ; (**28–30**) two oval silver badges and small silver-mounted baton, being the insignia of a messenger-at-arms—W. Tapp, 1868, and Mrs John Scott, 1865 ; (**31**) masonic badge, St Andrew, dug up at Dromore, Haddingtonshire—Treasure Trove, 1873 ; (**32**) gilt brass badge of Royal Stirling Volunteers, 1800—James Ferguson, 1864 ; (**33–56**) badges, viz. —(**33**) with the arms of the city of Edinburgh, the initials A.G., and the date 1719 ; (**34, 35**) of the Second Mid-Lothian Volunteers, 1798 and 1860—John M'Gowan, 1861 ; (**36**) 4 in. dia., bearing the letters G.R. and the Royal Arms ; (**37**) of brass, circular, device of a harp crowned, inscribed DRAPERS VOLUNTEERS ; (**38**) of similar shape uninscribed ; (**39**) of brass, in the shape of a star ; (**40**) in shape of a trumpet ; (**41**) in shape of a harp ; (**42**) of lead, oval, with hoop, St Andrew, and the motto NEMO ME IMPUNE LACESSIT ; (**43–47**) volunteer badges, &c. ; (**48**) blue-gown's or beggar's badge ; (**49**) of brass, with rampant lion ; (**50**) cloth badge, with thistle, St Andrew, and the Scottish motto ; (**51–55**) military badges ; (**56**) embroidered ribbon and buckle for suspending a medal ; (**57**) blue ribbon, asserted by donor to have been worn by Prince Charles Edward as part of insignia of order of Garter —Gilbert Innes, 1798 ; (**58**) plate of insurance society, from John Knox's

NC House, Netherbow—Dr J. A. Smith, 1861 ; (**59**, **60**) old clappers or hand-bells ; (**59**) formerly used by town crier of Edinburgh—W. M'Farlane, 1798 ; (**60**) unknown ; (**61**) fire-racket, used in Edinburgh about beginning of present century—David Laing, 1846 ; (**62**) half of brass shield, ornamented with three lions and *fleur-de-lis*—Sir Alexander Campbell, 1865 ; (**63**) table of fares and cab-drivers' badge, as used in Edinburgh at beginning of present century ; (**64**) badge worn on visit of George IV. to Scotland ; (**65**) boatswain's whistle of silver, engraved with anchors, initials D.N. and date 1660 —Purchased 1886 ; (**66**, **67**) painted batons of Edinburgh Constables *temp.* George IV. and William IV.—Miss Grieve, 1886 ; (**68**) beggars' badge in lead, issued by Town Council of Kirkwall, 1674 — Mr Williamson, 1887 ; (**69**, **70**) beggar's badges in lead, of parishes of Fossoway and Tullibole—Charles Black, 1887 ; (**71**) military badge of brass, Prince of Wales' feathers, motto, and trumpet, and CARSE OF GOWRIE—Purchased 1888 ; (**72**) epaulette of brass, with monogram G.R. under crown—Purchased 1888 ; (**73**) small baton mounted at ends with silver plates, engraved with royal arms and arms of city of Edinburgh—Purchased 1888 ; (**74**) buckle or badge of copper, with monogram ; (**75**) St Andrew's Cross badge of tin, worn on occasion of visit of George IV. to Scotland ; (**76**) constable's staff, carved with interlaced ornament and inscribed *K.C. Police* and V.R. under a crown —*Sturrock Collection ;* (**77**) snuff-mull, silver-mounted, of Incorporation of Hammermen of South Leith, dated 1816, with three shields and inscriptions—Deposited by Lords of Exchequer, 1886 ; (**78**) snuff-mull of Incorporation of Tailors, silver-mounted, with plates bearing deacons' names, &c.

NC 59.

[From other Countries.]

In Wall Case on Second Floor.

ND 1–4. Viz.—(**1**) leaden badge bearing coat of arms—*Bell Collection ;* (**2**) German military badge of brass ; (**3**) tricolor cockade worn in France during the Revolution in 1792—Rev. E. D. Ramsay, 1864 ; (**4**) beggar's badge of copper, from Ireland, found on Glenluce Sands, Wigtownshire, inscribed BALLYPHILIP POOR 2.—Rev. George Wilson.

PURSES, SPORRAN-CLASPS, &c.

In Window Case, South Side, and Floor Case, North Side, Ground Floor.

NE 1–27. Viz.—(**1**–**8**) purses, viz.—(**1**) embroidered hand-bag; (**2**) of buckskin, with three pockets and loop for waist-belt—Dr J. A. Smith, 1864; (**3**) of embroidered leather—Rev. D. Macintosh, 1796; (**4**) of embroidered cloth—Mrs Hall, 1799; (**5**) of fancy embroidery; (**6**) of embroidered leather inscribed N : BRITON, 1771; (**7**) embroidered velvet purse—John Erskine 1783; (**8**) of painted leather—J. T. Irvine, 1882; (**9**–**13**) purse and sporran-clasps, viz.—(**9**) engraved girdle purse-clasp; (**10**, **11**) sporran-clasps, from Athole, Perthshire—James Smith, 1839; (**12**) sporran-clasp of brass and steel, with four concealed pistols, which are fired by an incautious attempt to open the purse—Francis M'Nab, 1783; (**13**) of brass, studded with knobs—Purchased 1882; (**14**–**17**) sporrans, viz.—(**14**–**16**) of silver, brass-mounted—J. Drummond, R.S.A.; (**17**) of leather, silver-mounted, with thistle and three stars—Purchased 1876; (**18**–**20**) chamois leather purses for seals—Deposited by late Rev. Dr Hannah; (**21**, **22**) brass purse-clasps, viz.—(**21**) oblong, inscribed D MK, 1759; (**22**) pentagonal, with concentric circles on one side—Purchased 1883; (**23**) lady's purse of fine iron wire, circular in shape; (**24**) purse of sheepskin, found in moss near Whithorn, Wigtownshire, containing stone whorl and two silver coins of Alexander III.—Dr J. Douglas 1886; (**25**) clasp of Highland sporran brass, with border of engraved interlaced zigzags—Purchased 1886; (**26**) purse of leather, with brass clasp ornamented by circles and leather tassels, from New Machar, Aberdeenshire—Purchased 1887; (**27**) sporran of buckskin, with brass clasp—*Sturrock Collection.*

BROOCHES OF SILVER AND BRASS, CHAINS, &c.

In Window Cases on South Side and Floor Case on North Side of Ground Floor.

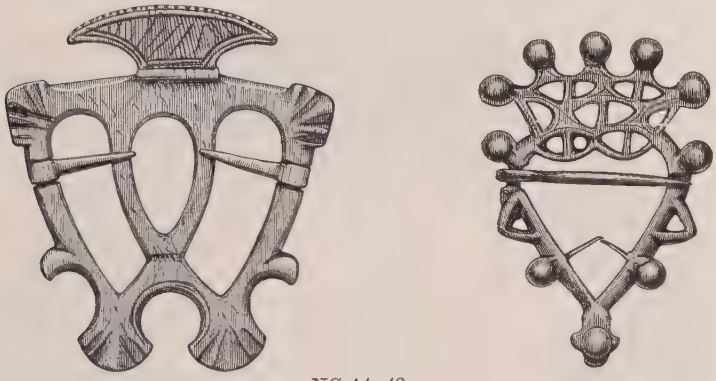
NG 1–162. Viz.—(**1**) circular brass brooch with pin of iron wire—Purchased 1882; (**2**) brass brooch, from Paible, Taransay—Captain F. W. L. Thomas, 1861; (**3**) copper brooch, as made and used in Lewis—Captain Thomas, 1861; (**4**) silver brooch, ornamented on face, and initials AMC. on reverse—*Sim Collection;* (**5**) brass brooch, found in Lewis—A. Redpath, 1849; (**6**) bronze brooch, without pin, from Relugas, Elginshire—Lady Dick Lauder; (**7**) bronze brooch, from Dumfriesshire—Rev. J. Roddick, 1862; (**8**) bronze brooch, locality unknown; (**9**) flat circular bronze brooch, $1\frac{7}{8}$ in. dia., found near Girvan, Ayrshire—R. B. Armstrong, 1871; (**10**) flat, circular, bronze brooch, $3\frac{1}{4}$ in. dia., from Relugas, Elgin—Lady Dick Lauder, 1861; (**11**) plain copper brooch and pin, $1\frac{7}{8}$ in. dia., from old church, Dundee—J. C. Roger, 1858; (**12**) engraved Highland brooch of brass, $2\frac{1}{8}$ in. dia.—Purchased; (**13**) bronze brooch, $1\frac{5}{8}$ in. dia., with monogram, found in excavating at Bank of Scotland, Edinburgh—G. S. Veitch, 1865; (**14**) hexagonal brooch, $2\frac{1}{4}$ in. dia., from Colonsay—Neil M'Neil, 1881; (**15**) bronze brooch, $1\frac{7}{8}$ in. dia., ornamented with grooves, &c.; (**16**, **17**) viz.—(**16**) copper brooch, $2\frac{1}{8}$ in. dia., and (**17**) ring, $2\frac{1}{4}$ in. dia., found in stone coffin at St Andrews—R. Bryson, 1852; (**18**–**24**) brooches, viz.—(**18**) circular, formed of rod of silver $3\frac{1}{8}$ in. dia., ornamented with six rosettes alternating with six ornamented knobs, minus pin; (**19**) flat, circular, of silver, $2\frac{1}{4}$ in. dia., inscribed IHESVS NAZARENVS. REX; (**20**) imperfect, with lozenge-shaped ornaments, covered with diapered pattern; (**21**) broken (similar to **18**); (**22**, **23**) finger-rings; and (**24**) jet beads—all found together with silver pennies of Edward I.

NG and II., John Baliol, and Alexander III., at Woodhead, Canonbie, Dumfriesshire—Treasure Trove, 1864; (**25**–**29**) from Langhope, Roxburghshire, viz.—(**25**) silver brooch, 2¼ in. dia., with 6 lozenge-shaped ornaments; (**26**) part of silver sheath; (**27**) silver pin, imperfect—Treasure Trove, 1882; (**28**) silver brooch, formed of rod of silver, 2⅝ in. dia., with four knobs and four lozenge-shaped ornaments; (**29**) silver ring, inscribed IESVS NAZR—all found in brass tripod pot, with coins of Edward I., II., III.—Purchased 1882; (**30**–**32**) circular brooches of silver, viz.—(**30**) flat, and inscribed IHESVS : NAZARENVS : REX IVDE, 1⅞ in. dia.; (**31**) made from rod of twisted silver, 2 in. dia.; (**32**) 1¾ in. dia., with four knobs and four leaves—all found in the ruins of Middleby Church, Dumfriesshire—Rev. Æ. Macdonald Dawson, 1851; (**33**) small brooch of silver, 1⅛ in. dia., gilt, with rosettes—Purchased 1852; (**34**–**36**) small brooches of silver, viz.—(**34**) flat, inscribed IESVS NAZA, 1⅛ in. dia.; (**35**) flat, 1⅛ in. dia., minus pin, legend illegible; (**36**) flat, 1¼ in. dia., octagonal, minus pin, legend illegible—*Advocates' Collection;* (**37**) small octagonal silver brooch, ¾ in. dia., with illegible inscription, found with coins of David II. and Robert II. at Branxholm, Roxburghshire—W. W. Hay Newton, 1860; (**38**) flat, circular, brooch of silver, 2¼ in. dia., inscribed IHESVS NAZARENVS REX NAZAR—Mrs Scott, 1872; (**39**) small circular brooch of silver, ¾ in. dia., inscribed IHESVS NAZAR, found in grave at Athelstaneford Churchyard—Robert Whyte; (**40**) small octagonal brooch, 1¼ in. dia., inscribed IHESVS NAZARENVS REX IVDEORVM, &c., found under floor of Dunfermline Abbey—D. Douglas, 1849; (**41**) octagonal silver brooch, 1⅞ in. dia., minus pin—locality unknown; (**42**) flat, circular brooch, 2⅛ in. dia., inscribed IHESVS : NAZARENVS : REX : IVDEORVM, reverse AVE . MARIA . GRACIA . PLENA . ORA—locality unknown; (**43**–**54**) Luckenbooth brooches, viz.—(**43**–**46**) of silver, of various shapes; (**47**) of plain gold, ⅝ in. dia.; (**48**) of silver, with ten

NG 18.

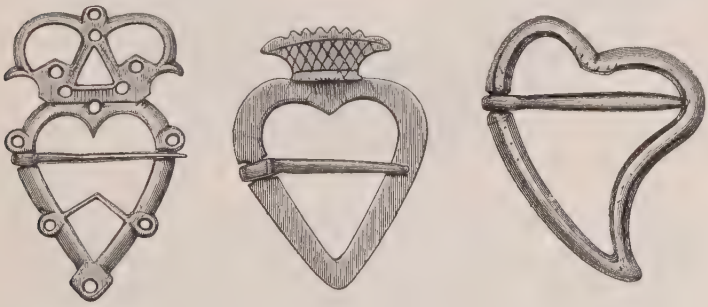
NG 38.

NG knobs on circumference; (**49–51**) small, heart-shaped, and set with stones; (**52, 53**) of silver, heart-shaped; (**54**) heart-shaped, of gold, plain—R. Carfrae, 1883; (**55**) two brooches entwined as one—Mrs A. M. Irvine, 1868; (**56–60**) heart-shaped brooches, plain and set with garnets and paste—localities unknown; (**61**) heart-shaped brooch of



NG 44, 48.

silver, from Shian, Perthshire—Mrs J. R. D'Olier; (**62**) small gold brooch, showing two hands joined—locality unknown; (**63**) brooch of polished stone, set in silver, minus pin—Dr Rogers, 1881; (**64**) circular, convex brooch of brass, with ornamental pattern—*Sim Collection;* (**65–71**) circular silver brooches, ornamented with engraved patterns



NG 43, 45, 61.

and niello, viz.—(**65**) 3 in. dia., minus pin, inscribed on back D MCV. KMT. 1717—John Buchanan, 1881; (**66**) 3¼ in. dia., inscribed H MCP. 1776; (**67**) 3 in. dia., inscribed D MCK. MMD 1777—*Sim Collection;* (**68**) 2⅛ in. dia., inscribed RC. CC. 1760—Rev. J. H. Pollexfen, 1861; (**69**) 3 in. dia., I MCP. M MCC 1762—Purchased 1882; (**70**) 2¼ in. dia., initialed GF. IW. 1777—R. Carfrae, 1881; (**71**) 3¼ in. dia., ornamented with nondescript animals within circles, and an imitation of black-letter inscription, found on Ben Vere, near Ballachulish, Nether Lochaber—Purchased 1882; (**72–85**) flat circular, brooches of brass, with engraved ornamentation, viz.—(**72**) 4 in. dia., from Canisbay Moor, Caithness—A. H. Rhind, 1860; (**73**) 3½ in. dia., minus pin; (**74**) 3⅞ in.

NG dia., inscribed with cross, and letters I.M.; (**75**) 5⅝ in. dia.—*Sim Collection;* (**76**) cast of same brooch; (**77**) 5 in. dia., ornamented with representations of nondescript animals—Dr William Sinclair, 1786; (**78**) 4⅛ in. dia., minus pin, reverse dated 1752—Purchased 1877; (**79**) 3⅞ in. dia., with floral scroll, star on reverse—*Sim Collection;* (**80**) 3⅞ in. dia.,

NG 71.

with floral scroll, star on reverse; (**81**) 3⅝ in. dia., with short iron pin—Purchased 1873; (**82**) 3½ in. dia.—*Sim Collection;* (**83**) 3½ in. dia., minus pin, reverse inscribed A.F.; (**84**) 2¾ in. dia., with nicked edge—Mrs Andrews, 1880; (**85**) 3⅞ in. dia., imperfect, from Argyllshire—Mrs J. A. Campbell, 1880; (**86–97**) lady's necklace, ear-rings, and buckles of Scotch pebbles, mounted in pinchbeck—David Deuchar, 1782; (**98**) oblong-shaped brooch of brass and pin, with figure of woman crowned; (**99, 100**) chains of gold, viz.—(**99**) of fine gold wire—*Advocates' Collection*—(**100**) for neck, with oval links, found in Holyrood Park—Treasure Trove, 1859; (**101**) chain of fine gold wire, with alternate links twisted—Purchased 1875; (**102**) brooch of brass, 4¾ in. dia., ornamented on the obverse only, with interlaced work, foliage, and two nondescript animals—Purchased 1883; (**103**) brooch of silver, 3 in. dia., ornamented with figures of deers' heads and flowers, inscribed on back, I.M*I.M.R., made in Inverness—Purchased 1884; (**104**) Luckenbooth brooch of silver, resembling crowned heart, with initials A.D. on back—Purchased 1884; (**105**) Luckenbooth brooch of silver, inscribed LET ME AND TH' MOST HAPPY BE—Purchased 1884; (**106**) brooch of silver, 3 in. dia., orna-

NG mented with interlacing, &c., and with niello inlay—Purchased 1885; (**107**) brooch of brass, $3\frac{3}{8}$ in. dia., with iron pin, and ornamented with small concentric circles, from Daviot, Inverness-shire—Captain William Dillon, 1885; (**108–110**) brooches, viz.—(**108**) small, of brass, imperfect, ornamented with foliaceous scroll; (**109, 110**) of copper, probably made

NG 102.

from pennies, from Uist—Purchased 1885; (**111, 112**) Highland brooches of brass, viz.—(**111**) $4\frac{1}{8}$ in. dia., surface chased with diagonally intersecting lines, and ornamented with two circles containing interlaced work, and two with eight radiating subdivisions, each filled by petal ornament, spaces between circles filled with serpent coiled in figure-of-eight and nondescript animal; (**112**) $2\frac{1}{2}$ in dia., ornamented with incised lines, in star-shaped pattern within border of radiating lines—Purchased 1885; (**113, 114**) brooches of copper, probably made from pennies, from North Uist—Purchased 1885; (**115, 116**) Luckenbooth brooches, viz.—(**115**) of gold, inscribed "*wrong not the* [*heart*] *whos ioy thou art;*" (**116**) of gold, ornamented on upper side—Purchased 1886; (**117–119**) Luckenbooth brooches of silver, viz.—(**117, 118**) plain; (**119**) in form of crowned heart—Purchased 1886; (**120**) Luckenbooth brooch of silver, rudely ornamented, with initials C.J. and D.N.R. on back—Purchased 1886; (**121**) Luckenbooth brooch of silver in form of crowned heart, with word "*love*" on back—Purchased 1886; (**122, 123**) Highland brooches of brass, viz.—(**122**) $1\frac{15}{16}$ in. dia., rudely ornamented, inscribed on back

NG FEAR GOD IN HEART 1769 . R.M.I.D.; (**123**) $2\frac{3}{8}$ in. dia., without pin, inscribed A.G. 1764 . A.G.—Purchased 1886 ; (**124**) Highland brooch of brass, 5 in. dia., engraved on both sides with foliaceous patterns, grotesque animals, and interlaced work—Dr R. de Brus Trotter, 1887 ; (**125**) small circular brooch of brass, 1 in. dia., with fragment of iron pin,

NG 124.—Obverse.

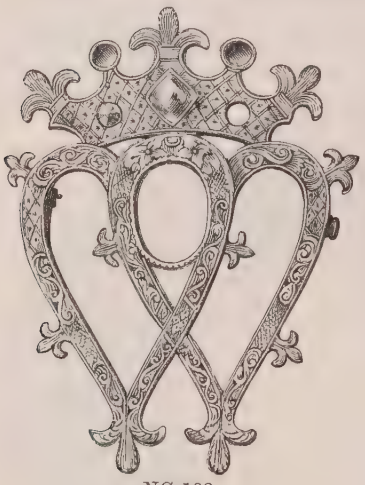
from Glentarkin, Lochearnside—J. A. Macdonald, 1887 ; (**126, 127**) pins for brooches, made from copper sheathing, from Illeray, North Uist—Purchased 1887 ; (**128**) Luckenbooth brooch of silver, from Glen Wyvis—Purchased 1887 ; (**129**) large Luckenbooth brooch of silver, inscribed on back IMT. S . MP and stamped CJ.—Purchased 1887 ; (**130, 131**) Highland brooches of brass, viz.—(**130**) $3\frac{1}{4}$ in. dia., ornamented with circular panels of interlaced ornament and having initials R.D.; (**131**) $3\frac{1}{2}$ in. dia., ornamented with patterns in form of square contained within circumference of brooch, minus pin and imperfect—Purchased 1887 ; (**132**) large Luckenbooth brooch of silver, ornamented with engraved patterns and set with stones, without pin—Purchased 1887 ; (**133**) small Luckenbooth brooch of silver, set with stones—Purchased 1887 ; (**134–136**) Highland brooches of brass, viz.—(**134**) $4\frac{1}{8}$ in. dia., ornamented with four engraved circles of interlaced work, and foliage in two of intervening spaces, third having triangle and triquetra, the fourth an animal ; (**135**) $3\frac{1}{4}$ in. dia., ornamented with four circles, two of which have central pattern of interlaced work, and between circles four triangles each containing triquetra outlines of ornamentation inlaid with niello ; (**136**) annular brooch, $2\frac{7}{16}$ in. dia., rude, with rudely-incised pattern, and letters U.P.H., under side bearing letters G.C. and seven crosses, pin of iron—Purchased 1888 at

NG Londesborough Sale ; (**137**) fac-simile of Highland brooch of brass, ornamented with circular panels of interlaced ornamentation, leaves, and triangles containing triquetras—A. J. S. Brook, 1889 ; (**138–144**) fac-similes of Highland brooches of brass from originals in collection of late Mr John Rae, Aberdeen, viz.—(**138**) $4\frac{1}{2}$ in. dia., ornamented with circles

NG 124.—Reverse.

filled alternately with incised ornament and floral patterns, minus pin, found at Harlaw ; (**139**) $5\frac{5}{8}$ in. dia., with six circles of interlaced ornament, with remaining spaces filled with leaf-scrolls, from Leochel-Cushnie ; (**140**) $3\frac{3}{8}$ in. dia., with ornamentation resembling old black-letter, minus pin, from Cabrach ; (**141**) $5\frac{1}{8}$ in. dia., with open-work border and four panels of interlaced ornament, intervening spaces filled with foliaceous scrolls ; (**142**) $4\frac{1}{4}$ in. dia., with three panels of interlaced ornament, &c. ; (**143**) $4\frac{3}{8}$ in. dia., with four panels of interlaced ornament, two with floral patterns, intervening spaces filled with animal, flowers, &c., reverse bearing three circular panels, each with flower, one panel of interlaced ornament, and intervening spaces filled with leaves and flowers and name ALEXR. YOUNG ; (**144**) 7 in. dia., ornamented with various devices on both sides—Purchased 1890 ; (**145**) fac-simile of penannular brooch of brass with expanding ends, from the original in collection of late Mr John Rae, Aberdeen, ornamented with three sunk spaces ornamented with rows of oblique lines and with two sockets for stones, from March-stone between Abergeldie and Birkhall, Aberdeenshire — Purchased 1890 ; (**146, 147**) two large brooches of peculiar form, one of silver, the other of silver and copper, recently made by a *Ceard* in Highlands—Purchased 1890 ; (**148**) brooch of brass, $2\frac{3}{4}$ in. dia., rudely ornamented with square

NG pattern, with pin, from Balvenie, Banffshire—Purchased 1890; (**149**) Highland brooch of brass, 2 in. dia., rudely ornamented, from Aberdeenshire — Purchased 1890; (**150, 151**) two silver brooches, viz. —(**150**) circular, $1\frac{1}{4}$ in. dia., inscribed; (**151**) octagonal, $1\frac{3}{8}$ in. dia., inlaid with niello, from old fort of Ayr—Treasure Trove, 1892; (**152–156**) Luckenbooth brooches, viz.—(**152, 153**) one small heart-shaped of silver, the other of bronze, from Banffshire—Purchased 1890; (**154–156**) one of gold and two of silver, all heart-shaped—*Sturrock Collection;* (**157**) brooch of brass, $3\frac{7}{8}$ in. dia., engraved with nondescript animals and foliaceous ornament, from Pitsligo—Rev. Dr Grigor, 1891; (**158–162**) brooches of silver, viz.—(**158**) $2\frac{1}{4}$ in. dia., of plain wire, with four beads at regular intervals on circumference; (**159**) $1\frac{3}{4}$ in. dia., inscribed IHESVS NAZARENVS REX IVDEORVM; (**160**) $1\frac{5}{8}$ in. dia., flat on both sides, inscribed IHESVS NAZAVRIX, with same on other side but blundered; (**161**)



NG 132.

NG 157.

imperfect, $1\frac{1}{4}$ in. dia.; (**162**) octagonal, 2 in. dia., with greatly blundered inscription, from Brechin—Purchased 1891.

[From other Countries.]

In Table Case on Second Floor.

NH 1-10. Viz.—(1) circular brooch of silver, 1⅞ in. dia., pin with ornamented head, found near Roman wall, Hexham, Northumberland—Alexander White, 1851 ; (2) circular brooch of silver, 3 in. dia., ornamented with five prickly knobs at equal distances, alternating with six leaf-like ornaments, found near Norham Castle, Northumberland—Purchased 1871 ; (3) circular brooch of silver, 1 in. dia., flat, and bearing what appears to be cabalistic inscription, and partly inlaid with niello, minus pin—*Bell Collection ;* (4) brooch of bog oak in form of coiled serpent—*Bell Collection ;* (5, 6) brooches of silver set with small stones, viz.—(5) with inscription in Turkish characters on face, minus pin ; (6) bearing inscription in Arabic characters on back—Purchased 1875 ; (7-10) four small brooches of silver and silver-gilt, mostly of open work, from Norway—Robert Carfrae, 1890.

FINGER-RINGS, EAR-RINGS, &c.

In Window Case South Side of Ground Floor.

NJ 1-11. Finger-rings in gold, viz.—(1) massive seal-ring, flower engraved intaglio on square impress, from Halidon Hill, Berwickshire, 1830 ; (2) plain, set with rough garnet, found near Tweedmouth, 1832 ; (3) seal ring, with arabesque ornamentation and letters IHS on circular impress, found in 1825 in old burying-ground near Arbroath ; (4) swivel-ring (centre part only original) having on one side death's-head and cross-bones, and inscription RAMENDER ON DEATH, on other, deer lodged and initials I.S., from Magus Moor, near St Andrews ; (5) engraved with two lilies and words A DEB CAT for A DIEV CHANTE, from Stobo, Peeblesshire ; (6) imperfect, with small stone, found on Priory lands, St Andrews—W. Hay Newton, 1860 ; (7) engraved with nimbed figures and foliage, enamelled, and with letters ℞ twice repeated, from Tantallon Castle—Captain Sir H. James, R.E., 1853 ; (8) hoop-ring, inscribed Jaspar . ℳelchior . baltaʒar, found on Castle Hill, Edinburgh—Mrs John Scott, 1865 ; (9) corded ring, with figure of rabbit on square bezel ; (10) plain hoop-ring, with talismanic inscription—*Advocates' Collection ;* (11) hoop-ring, inscribed QUHAIR THIS I GIVE I WISS TO LIVE, found in Edinburgh—Purchased 1880 ; (12-14) rings of silver-gilt, viz.—(12) inscribed IHC MARIA—Bishop of Brechin, 1863 ; (13, 14) similar rings, similarly inscribed—*Advocates' Collection ;* (15) brass ring, inscribed with Anglo-Saxon runes, found at St Andrews—W. W. Hay Newton, 1860 ; (16-18) betrothal rings, viz.—(16) in silver-gilt, inscribed IHESVS—W. W. Hay Newton, 1860 ; (17, 18) in brass-gilt—*Advocates' Collection ;* (19) broad brass ring, ¾ in. dia., and ⅝ in. broad, inscribed in Anglo-Saxon runes, found in Cramond Churchyard—Rev. Dr Colvin, 1870 ; (20) parcel gilt ring—*Advocates' Collection ;* (21-28) inscribed rings, viz.—(21) hoop of silver, with panels, inscribed IHESVS—*Advocates' Collection ;* (22) plain hoop of silver, inscribed IHESVS NAZARENVS ; (23) plain hoop of silver, with cabalistic inscription, found near Arbroath—J. C. Roger, 1855 ; (24) hoop-ring of brass, with illegible inscription in panels, found in manse garden, Cumbernauld—Dr D. Wilson, 1863 ; (25) seal-ring, inscribed IHS on impress—H. Maclaurin, 1866 ; (26) hoop-ring, imperfect, inscribed IHS, found in burn of Papdale, Kirkwall—Treasure Trove, 1873 ; (27) massive seal-ring, inscribed IHS on impress, with letters AB below ; (28) seal-ring, from

NJ Bawdsey, Suffolk, with hunting-horn, and illegible inscription on impress —W. Burch, 1873 ; (**29**) brass ring, with bezels, found in Aberdeenshire —Mr Joss, 1865 ; (**30**) ring made from silver coin of Thurium ; (**31**) ring of silver wire, imperfect, found at Kirkwall—G. Petrie ; (**32–37**) signet-rings of brass, viz.—(**32**) with initial T on impress ; (**33**) with initials on impress ; (**34**) large, with initial R ; (**35**) with dog on impress and two serpents (?); (**36**) thin ends overlapping, inscribed X.X. ; (**37**) thick at top, with elliptical impress ; (**38**) prayer-ring of bone, dug up in Inveresk Churchyard—Dr Daniel Wilson, 1863 ; (**39, 40**) fac-similes of finger-rings of silver-gilt, inscribed MARI . IHS, one found at Pluscarden, the other in old graveyard near Fintry House—James Rettie, jeweller ; (**41**) betrothal-ring of copper, asserted by donor to have been given to Flora Macdonald by Prince Charles Edward—E. W. D. Hay, 1864 ; (**42**) thumb-ring of silver-gilt, inscribed IESVS NAZAR, from Restennet Priory, Forfar—George Sim, 1877 ; (**43**) rudely-made bronze ring, from Duffus Churchyard, Morayshire—Purchased 1870 ; (**44**) rudely-made silver ring, with flat, oval bezel, bent to convexity of ring, with initials I.P. and I.M., found near Pluscarden Abbey—Rev. James Morrison, 1879 ; (**45, 46**) ear-rings, with miniature portraits of Sir Alexander Fraser of Philorth, who died in 1623, and his wife, mounted in gold—Lord Saltoun, 1784 ; (**47, 48**) ear-rings of lava and gold—Dr D. H. Robertson, 1864; (**49**) silver signet-ring, with setting of paste, with bust, inscribed W.D. OF CVMBERLAND, found near Inverness—Fountaine Walker, 1865 ; (**50**) jewelled ring, said to have been given to Buchanan of Arnprior by Prince Charles Edward Stuart—Miss M'Nab, 1886 ; (**51**) small gold locket, one side engraved with forget-me-nots, on the other "my heart be trew," inside a bleeding heart—J. W. Wotherspoon, 1886; (**52**) old Scottish marriage-ring, inscribed NEIL PATON MARD JUNE 14, 1769—J. R. Findlay, 1889; (**53**) finger-ring of silver, with monogram AEI on top, made by a Ceard (see NG 146, 147)—Purchased 1890 ; (**54**) finger-ring of gold, with the signet part divided into two hexagonal panels, containing in one, figure of Virgin and Child, in other, an ecclesiastic blessing the sacramental cup, the outlines and background filled with black enamel, said to have been found near Melrose—Purchased 1890.

NJ 54.

[From other Countries.]

In Floor Cases on Second Floor.

NK 1–46. Viz.—(**1–39**) engraved gems, viz.—(**1–4**) cameos; (**5–39**) intaglios, mostly mounted in gold for rings—Trustees of late David Laing, LL.D., 1879; (**40**) iron ring with intaglio; (**41**) ring of plated gold ; (**42–44**) finger-rings of silver and gilt, from Norwegian-Lapland—Sholto Douglas ; (**45, 46**) ring of silver-gilt and pair of silver filigree sleeve-links, from Norway—Robert Carfrae, 1890.

WATCHES, CLOCKS, COMPASSES, &c.

In Window Cases, East End of Ground Floor.

NL 1–46. Viz.—(**1–9**) watches of silver and brass, viz.—(**1**) brass repeating-watch with perforated cover dated 1592—George Cooper, 1782; (**2**) silver double-cased watch by Roumieu, Edinburgh, with pinchbeck triple chain and swivel

NJ seal with antique head—Charles Brand, 1862; (**3**) of silver with chased silver dial, by Stephen Rayner, London (1691)—Dr George Bell, 1863; (**4**) of silver, with chased silver dial, by "H. Massey, London," case engraved with crest and dated 1685—Dr T. H. Pattison, 1876; (**5**) silver watch with chased dial, by "R. Johnstone, London;" (**6**) small silver watch with white dial, with separate index of the hours and minutes, by "W. Gordon, London"—Robert Caunter, 1852; (**7**) pinchbeck watch with enamelled back, by "J. Cleland, Edinburgh"—Mrs Henry Ziegler, 1876; (**8**) melon-shaped watch-case of brass, with dial and hand; (**9**) watch movements, found on battlefield of Prestonpans—A. Drummond, 1781; (**10–15**) clocks and timepieces, viz.—(**10**) timepiece, by "Johannes Smith," in New Brainford, 1545—Miss Burns, 1846; (**11**) timepiece with engraved floriated horn dial, with single hand, inscribed HUMPHREY MILES FECIT, (**12**) brass movement of an eight-day clock, by "Joseph Davis, London," both purchased, Sim Sale 1869; (**14**) timepiece—*Sim Collection;* (**15**) dial-plate of clock and works—*Sim Collection;* (**16–25**) astronomical rings and sun-dials of brass, viz.—(**16**) ring-dial, 10 in. dia.—W. T. M'Culloch, 1867; (**17**) sun-dial, engraved with hour circle, compass points, variation of the clock, &c., inscribed "GEORGE JAMESON FECIT"—Purchased, Sim Sale, 1869; (**18**) pocket sun-dial with compass and calendar combined, inscribed THIS TABLE BEGINNETH AT 1572 AND SO FOR EVER, &c.; (**19**) pocket sun-dial in wooden case—James Johnstone, 1860; (**20**) traveller's horologe or ring-dial, dated 1700; (**21**) horologe; (**22**) small oval plate of sun-dial of brass, gilt, found in ruins of old house at Carnwath—Hugh Smith, 1788; (**23**) small perpetual almanac in brass, made in Germany—J. Edmonstone, 1783; (**24**) compass in brass case; (**25**) horologe; (**26–28**) chatelaines, viz.—(**26**) of brass—*Bell Collection;* (**27**) of pinchbeck; (**28**) of steel beads, with locket, pendant, and girdle hook—Mrs H. Ziegler, 1876; (**29–31**) watch-chains, &c., viz.—(**29**) of steel, with crank key and seal—William Tapp, 1868; (**30**) of brass, with seal; (**31**) crank-key—R. B. Armstrong, 1876; (**32**) brass seal with bust of jockey; (**33**) ring-dial, inscribed L. HANCOCK—J. T. Irvine, 1880; (**34**) brass compasses, found in Lindores Abbey—Charles Lees, 1862; (**35**) astronomical instrument; (**36, 37**) microscopes of early construction; (**38**) mathematical rods of wood, said to have been used by Napier of Merchiston—Thomas Chapman, jun.; (**39**) embossed silver watch and chain, made by Lesturgeon of London, said to have belonged to Lord William Russell—James Leslie, 1884; (**40**) portion of old telescope; (**41**) sextant, inscribed with name of Thomas, Lord Erskine, used by him when midshipman in Royal Navy—Sir D. Erskine, 1838; (**42**) case of thirty-five specimens of balance-covers taken from old verge watches, eighteenth century—Messrs Mackay & Chisholm, 1885; (**43**) set of "Napier's bones" of ivory, in small case—James Chisholm, 1883; (**44**) small pocket sun-dial of brass, from Glenluce Sands, Wigtownshire—Rev. Geo. Wilson; (**45**) pocket sun-dial, compass, and calendar in brass case inscribed "*John Tennent* 1620, *Ile serve you Ay Both night and Day*"—Purchased 1888; (**46**) pocket combination sun-dial, compass, and calendar of ivory, silver and brass mounted—Rev. J. A. L. Campbell, 1892.

SEALS AND STAMPS.

In Window Case North Side of Ground Floor.

NM 1–119. Viz.—(**1–4**) silver matrices of great seal of Scotland, viz.—(**1, 2**) obverse and reverse of great seal of George III.; (**3, 4**) obverse and reverse of great seal of William IV.—Lords Presidents of Privy Council, 1857 and 1876; (**5–8**) silver matrices of quarter seal of Scotland, viz.—(**5, 6**)

NM obverse and reverse of quarter seal of George III.; (**7**, **8**) obverse and reverse of quarter seal of William IV.—Lords Presidents of Privy Council, 1857 and 1876; (**9**, **10**) privy seal of Scotland of William IV., and (**10**) signet seal in Scotland of William IV.—Lords Presidents of Privy Council, 1876; (**11-18**) matrices in brass or copper of ecclesiastical seals, viz. —(**11-13**) of cathedral chapter of Brechin, inscribed S . CAPITVLI . SANCTE .

NM 11. Obverse and Reverse.

TRINITATIS D' BRECHIN (fourteenth century), and casts of same—William Anderson, 1853; (**14**) of court (official) of Brechin, SIGILLUM : CURIE : OFFICINALIS . BRECHINENSIS, found on Links, Montrose—Treasure Trove, 1853; (**15**) large oval pointed, of cathedral chapter of Caithness, s'. CAPITLI . ECCE . SCE . DEI . GENITRICIS . MARIE . CATANENSIS—Purchased 1851; (**16**) Abbey of Kelso, SIGILLUM . COMMUNE . STE . MARIE . DE . KELCO—Dr David Spence, 1781; (**17**) chapter of Dunkeld, St Columba in pontificals, seated, S . CAPITVLI . DVNKELD . AD . CAVSAS . ET . CET' A . NEGOCIA; (**18**) of hospital of St Anthony, near Leith, St Anthony with pig and tau-staff, S . COMUNE . PRECEPTOIRE . SANCTI . ANTHONII . PROPE . LEICHT—*Advocates' Collection*, Purchased 1874; (**19-21**) of Abbey of Inchaffray, Perthshire, S . COMMUNE . ECCE . SCI . IOHIS . EVANGELISTE . DE . INSVLA . MISSARVM, cast in lead, and two electrotypes—Rev. D. Geddes, 1783; (**22**) brass matrix of seal of Thomas Sydeserf, Bishop of Brechin (1634), S . THOMÆ . EPISCOPI . BRECHINENSIS—William Forbes, 1879; (**23**, **24**) electrotype fac-similes of obverse and reverse of burgh seal of Aberdeen, SIGILLVM . COMMUNE . DE . ABERDEEN; (**25**) steel matrix of burgh of Dumfries, St Michael and dragon, SIGILLVM . COMMVNE . BVRGI . DVMFRIES—John Menzies, 1839; (**26**) personal seal of David Strachan, Bishop of Brechin (1662–1671), SIGIL : DAVIDIS : EPISCOPI : BRECHINENSI —William Anderson, 1853; (**27**) brass matrix, burgh of Canongate, S'COIE . BVRGI . VICE CANONICOR . MONASTERII . SANCTE CRVC, found in citadel, Leith—John Tingman, 1863; (**28**) copper matrix of seal of burgh of Canongate, S. BURGI . VICI CANONICORVM MONASTERII SANCTE CRVCIS — Charles Watson, 1878; (**29**) personal

NM seal of W. Matthew, monk of Arbroath, S. W. MATTHI MONAC D. ABIRBROTHOT—St Vigean's Lodge of Freemasons, 1833; (**30**) cocket seal of Dunfermline, arms of Scotland, ROBERTVS . DEI . GRATIA . REX . SCOTORVM; (**31**) cocket seal of Melrose, arms of Scotland, S. COKETE . REGALITATIS . SANCTE . MARIE . DE . MELROS; (**32**) small silver seal bearing stag's head underneath rabbit, inscribed S. NICOLAI DE GALWAY, from Dumfries—Treasure Trove, 1882; (**33**) matrix in lead, burgh of Arbroath, S. COMMITATIS BURGI DE ABIRBROTHOT—George Sim; (**34**) cocket seal of St Andrews, figure of St Andrew, SIGILLVM COKETE CIVITATIS SANCTI ANDRIE, 1566—*Advocates' Collection;* (**35**) amber seal, found near Lamington, GRACIA . DEI . SVM . QVOD . SVM—Deposited by William Core; (**36**) seal of burgh of Kinloss, Virgin and Child under canopy, S. REGALITATIS . DE . KYNLOS—*Advocates' Collection;* (**37**) impression of amber seal of canon of Inchaffray, bearing in centre eagle displayed, S. ALANI . CANONICI . DE . INCHAF; (**38–40**) matrices, viz.—(**38**) of brass, arms of Scotland, I.R. under crown and inscription IACOBVS DEI . GRA . MAG . BRIT . FRA . ET . HIB . REX; (**39**) of steel, arms of Scotland surrounded by garter, IACOBVS . VII . D . G . M . BRIT FRA . ET . HIB . REX . F'D—Dr William Hunter, 1781; (**40**) of steel, arms of Scotland with arms of Nassau, inscribed GVL . II . DEI . GRA . SCOT . AN . FRAN . ET . HIB . FID . DEF—Dr William Hunter, 1781; (**41**) matrix of brass, Incorporation of Hammermen of Dundee, St Eloy with hammer and crosier, S'CE ARTIS MALLIATO SCI ELEGII DE DVNDE—*Advocates' Collection;* (**42–45**) unknown seals, viz.—(**42**) matrix of brass, mounted knight in mail armour, SIGILL . BENEDICAMVS DOI ANNV FIL, from Raewick, Shetland—Purchased; (**43**) matrix in brass, small, oval, with the figure of a bird, S. RADVLFI . DE . COVINTR, supposed to be from Culross Abbey—Daniel Wilson, 1851; (**44**) matrix in brass, small, circular, with angel carrying large B, HOC . EST . SECRETVM . EV, found in ruins of Culross Abbey—Daniel Wilson, 1851; (**45**) brass matrix, circular, a stag's head cabossed, cross-crosslet between antlers, "S'RADULFI WASTEHUS"—Lieutenant Symes, 1784; (**46**) brass matrix of seal of Robert Stuart, Bishop of Caithness, S. ROBERTI STVARTI EPI . CATHANEN—Dr Alexander Laing, 1879; (**47**) official seal of Prior of Friars preachers of Perth, S. OFFICI . PRIORIS . ORD . PREDICATORVM . DE . PTH—William Anderson, 1853; (**48, 49**) small matrices with shields of arms—Dr W. Scott, 1832; (**50–52**) unknown seals, viz.—(**50**) matrix in brass with shield of arms; (**51**) seal, with turbaned head and Hebrew inscription, found on Arthur's Seat, Edinburgh—Dr D. Wilson, 1852; (**52**) matrix in silver, an open hand on a shield, inscribed IEIN IOEIN—Purchased; (**53**) fac-simile of gold matrix

MN 53, 64.

of privy seal of Joan Beaufort, Queen of James I. of Scotland (1424), found in 1829 at Kinross; (**54**) seal of Old Edinburgh and Dalkeith Railway—Edward Burns, 1888; (**55**) glass seal, with brass border, showing shield, three stars, and three crescents, reverse, two birds and flower;

NM (**56**) excise stamp for candles—Dr D. H. Robertson, 1869 ; (**57**) electrotype of book stamp of John Hamilton, Archbishop of St Andrews, 1543–71—Henry Laing, 1863 ; (**58**) brass book stamp, with Royal Arms, inscribed IN DEFENCE, IACOBVS REX 6 ; (**59**) ornamental silver watch-seal, with female head—J. T. Irvine, 1880 ; (**60–66**) steel, silver, and brass seals, viz.—(**60**) ornamented steel seal and case (Ross of Balnagown)—D. M'Pherson, 1866 ; (**61**) steel double seal (Seton's of Culbeg)—W. Anderson, 1853 ; (**62**) steel swivel seal, with Fraser arms—George Lorimer, 1864 ; (**63**) cairngorm seal of Princess Amelia, daughter of George II.—Miss Turner, 1862 ; (**64**) seal of AERNAVD LAMMIVS, found in Parliament Square, Edinburgh—Andrew Grieve, 1833 ; (**65**) brass seal, showing human head, legend illegible, from Peelbog, Lumphanan, Aberdeenshire—Purchased 1870 ; (**66**) seal of one of bishops of Glasgow ; (**67–78**) watch, and other seals ; (**79–81**) seals, viz.—(**79**) impress seal ; (**80**) probably foreign, minus handle ; (**81**) in shape of female figure, with monogram C.M. ; (**82**) desk seal of Mackay, Lord Reay—James Johnstone, 1860 ; (**83**) seal of "Friendly," the first Insurance Society in Scotland, established 1727—W. Swanson, 1852 ; (**84**) steel seal, with death's-head and cross-bones—Alex. Bryson, 1860 ; (**85**) seal of "Grand Royal Arch Chapter, Haddington ;" (**86**) brass seal or stamp of "15th Regt. of Orange Lodge"—J. Johnstone, 1860 ; (**87**) triangular seal, with perforated handle—*Sim Collection ;* (**88**) brass matrix, inscribed SIGILLVM ARCHPRESBITERI LEODIENSIS, from Golspie, Sutherlandshire—Prof. Wm. Ogilvie, 1781 ; (**89–106**) matrices and seals of Episcopal bishops of Scotland ; (**109**) leaden seal, from Orkney, with shield and saltire, engraved S. M. IACOBI. MAXVEL.VIC.DA.STR—Colonel D. Balfour, 1881 ; (**110**) copper plate, inscribed "the eye finds, the heart chooseth, the hand binds, but death looseth," on the reverse "L*Row, 1735"—James Johnstone, 1850 ; (**111**) cast in type metal of seal and counter seal of convent of monastery of Kilwinning ; (**112**) leaden seal, from Linlithgow, with shield and Hamilton arms, M IACOBI HAMILTOVN—Purchased 1883 ; (**113**) matrix of common seal of Burntisland, in centre ship, and round circumference inscription SIGILLVM BWRGI DE BRVNTELAND—Purchased, Gibson Craig Sale, 1887 ; (**114**) matrix of chapter seal of Church of St Magnus, Orkney, inscribed SIGILLVM CAPITVLI ORKADENSIS ECCLESIE SANCTI MAGNI—*ibid. ;* (**115**) pendant seal, gilt, with stone engraved with ship, trophy of arms, &c., and initials A.S. interlaced—*ibid.;* (**116**) oval brass seal, Virgin and Child, underneath, monk in adoration, CVLPIS HELIE PARCITO $\overline{\text{XPE}}$ $\overline{\text{P}}$., from Gattonside, near Melrose—Purchased 1887 ; (**117**) brass seal, circular, of Canongate, with wooden handle, stag's head, with cross between antlers, SIC ITUR AD ASTRA—R. N. Inches, 1890 ; (**118, 119**) seals, viz.—(**118**) of brass, pendent, legend illegible, from Lanark ; (**119**) of copper, in centre thistle and CR II., on circumference SIG . OFFICII . COMISSARI . STERLI. PER . ALEX. MONRO—Purchased 1888.

[From other Countries.]

In Window Case, North Side of Ground Floor.

NN 1-54. Viz.—(**1**) ivory matrix of the bishopric of Lichfield and Coventry, found in Orkney, SIGILL : EPISC : COVEN : ET : LICH : AD : SEQVEST : 1612—George Paton, 1782 ; (**2**) brass matrix, S . JOHANNE . PRIORISSE . DE . BVGEIA —Purchased 1851 ; (**3**) brass matrix with shield of arms of the Duchy of Lancaster, IACOBVS II. DEI GRATIA MAGNE BRITANNIÆ—FR. ANGL. ET HIBERNIE [—] FIDEI DEFEN—Purchased 1876 ; (**4**) brass matrix of seal of Order of St Francis in Calabria, SIG . PROVIN . CALABRIÆ . TER . ORDINIS.

NN SAN. FRANCISCI, 1850—Purchased 1851 ; (**5**–**9**) silver watch-seals, viz.—(**5**) with initials T.R., from County Meath, Ireland ; (**6**) with initials T.S., from Cork ; (**7**) with initials P.D., from Cork ; (**8**) with coronet and plume of feathers, from Cork ; (**9**) with shield of arms, from Cork—Purchased 1875 ; (**10**) seal, with initials J.S., from Surrey ; (**11**) brass matrix of seal of fabric of Cathedral Church of Metz, oval, with Virgin and Child, inscribed S. FABRICE ECCLESIE METENSIS—William Forbes, 1878 ; (**12**) silver brand with initials I.S. divided by heart, said to have been a brand for marking slaves, from St George, West Indies—T. Chapman, jr., 1882 ; (**13**) brass stamp with inscription—Purchased 1851 ; (**14**–**19**) silver watch-seals, with intaglios—Purchased 1875 ; (**20**–**35**) signet-rings of silver, &c., with intaglios and inscriptions, from Turkey and Arabia—Purchased 1875 ; (**36**) signet, with arms of O'Neill, attached to silver chain—*Bell Collection ;* (**37**–**46**) seals of English non-jurors (Brett, Collier, Gandy, Hickes, Mawman, Rawlinson, and others unnamed), viz.—(**37**) Brett, cross with wings, VERSVS COELVM ; (**38**) Collier, with monogram and inscribed EI . MH . EN . TΩ . ΣTAYPΩ ; (**39**) Gandy, man with book and sword, inscribed ΠPOΣEXETE ΠANTI TΩ ΠOIMNIΩ ; (**40**) Hickes, the Good Shepherd, EN : BONVS : PASTOR ; (**41**) Mawman, female with cross, DESIDERIUM . MEVM . CRVCIFIXVM . EST . 1737 ; (**42**) Rawlinson, bishop with crosier, QVI . INTRAT . PER . OSTIVM . PASTOR . EST . OVIVM + ; (**43**) of silver, with crucifixion, IN . HOC . SIGNO . VINCES ; (**44**) of silver, with mitre and two crosiers in form of cross, GREGEM . REGE . ET . PASCE . A_{o} DNI. 1728 ; (**45**) of silver, with key and crosier in form of cross, ΣYΛΛEFΩ . KAI . ΦYΛAΤΤΩ . 8 . CAL . MART . 1728 : ⁘ ; (**46**) pendent seal with mitre and two keys in form of cross, no inscription—Deposited by late Rev. Dr Hannah, 1864 ; (**47**–**53**) seals and stamps, viz.—(**50**) seal or stamp in brass with arms of Scotland, Navarre, &c. ; (**47**–**49**) private seals, two with ivory handles ; (**52**) seal of a bishop of Cluney, France, SIGILLV PETRI EPI CLVANENS ; (**53**) seal of bishop, which seems to read SIGILLV C . ECS DIE GIA DROM ORELLC . EPI ; (**54**) small seal, inscription partly illegible—Purchased, Gibson Craig Sale, 1887.

CHARMS, AMULETS, &c.

In Window Case, North Side of Ground Floor.

NO 1–40. Viz.—(**1**) flat, oblong stone, $4 \times 2\frac{3}{4} \times \frac{1}{4}$ in., notched on sides and pierced with two holes, formerly used for cure of diseases in Islay, Argyllshire—Robert Graham, 1784; (**2**) charm called "Barbreck's bone," plate of ivory, $7\frac{1}{2} \times 4$ in., formerly celebrated as cure for madness in Argyllshire—Frederick W. Campbell, 1829 ; (**3**) portion of stone, formerly used as charm in Athole, Perthshire—James Smith, 1839 ; (**4**–**7**) large amber beads formerly worn in Argyllshire as good for the eyesight—Mrs James Johnstone, 1849 ; (**8**–**11**) spindle-whorls of stone, superstitiously termed "adder stones," used in the Lewis against diseases of cattle—Dr Arthur Mitchell, and Capt. F. W. L. Thomas, 1861 ; (**12**) "witch's stone," a holed stone, formerly used as charm against witchcraft in Roxburghshire—Dr John Alexander Smith, 1850 ; (**13**) collection of "fairy stones," or natural concretions, from Fairy Dean, on Alwent Water, near Melrose—Dr John Alexander Smith, 1857 ; (**14**) amulet, formed of triangular fragment of a greenish-coloured stone, set in silver, and with initials IKM on back—Mrs Maclaurin, 1851 ; (**15**) amulet of rock-crystal set in brass, with loop for suspension, from Oban—*Sim Collection;* (**16**) amulet of rock-crystal cut for mounting—Marquess of Breadalbane, 1848 ; (**17**) flat, oval-shaped pebble, $2\frac{1}{2}$ in. long, formerly used as charm by farmer in Forfarshire, who wore it suspended by *red* string round his neck—Andrew Jervise, 1864 ;

NO (**18**) written charm to cure toothache, purchased from professional witch at Kishorn, Lochcarron, Ross-shire, and worn on the neck of shepherd—Rev. James M. Joass, 1871 ; (**19**) written charm to cure toothache, of similar wording as No. 18, given in 1869 to a domestic servant in Dingwall by the wife of a gamekeeper at Garve, Ross-shire ; (**20**) egg-shaped pebble of granite, glazed, probably used as charmstone, from Wigtownshire—Dr William Gemmill, 1883 ; (**21**) perforated stone, which was hung up in cowbyre in Cumbernauld, Dumbartonshire, to protect cattle from being bewitched—Dr Daniel Wilson, 1863 ; (**22**) calf's heart stuck full of pins, which had been used as charm in witchcraft, found in old house in Dalkeith—James Bowd, 1827 ; (**23–31**) smoothed pebbles, which have probably been used as charmstones, viz.—(**23–28**)—*Sim Collection ;* (**29**) of sandstone, perforated with two holes, found in ruins of cowbyre in Dumfriesshire—Dr Daniel Wilson, 1863 ; (**30**) perforated, from Old Cambus, Cockburnspath ; (**31**) perforated, from Ladykirk, Berwickshire—both by James Hardy, 1884 : (**32, 33**) smoothed, roundish pebbles of quartzite, probably charmstones, viz.—(**32**) from Dubford, Old Machar, Aberdeenshire—D. Lyell Hay, 1875 ; (**33**) polished on one face ; (**34, 35**) small perforated stones, which have probably been used as charms, from Fifeshire—Purchased 1885 ; (**36, 37**) charms from Galloway, viz.—(**36**) goose's thrapple containing lead drops, which had been used as charm against whooping-cough ; (**37**) natural concretion, which had been hung at bed-foot as charm against evil dreams—Sir Herbert Eustace Maxwell, Bart., 1889 ; (**38**) charm, used in Argyllshire in last century, formed of polished slice of silicious fossil-wood, set in silver, said to have been brought from Holy Land—Robert Carfrae, 1890 ; (**39**) charmstone, from byre at Cachladhu, St Fillans—J. M. Gow, 1888 ; (**40**) amulet of copper inlaid with silver, cylindrical-shaped, $\frac{1}{2}$ in. long by $\frac{7}{16}$ in. dia., worn as a cure for kidney disease—Mrs Gunning 1891.

[From other Countries.]

In Wall Case opposite Entrance Door on Second Floor.

NP 1–13. Viz.—(**1, 2**) vertebræ of gazelle, used as charms against evil spirits in Palestine ; (**3**) piece of wood wrapped in cloth and bound about with narrow band of copper wire, used by natives of West Coast of Africa—Mrs John Scott, 1864 ; (**4–9**) amulets, &c., with inscriptions in Arabic and other characters ; (**10**) bag decorated with beads and filled with "mummy dust," used by Bushmen of South Africa for sprinkling on their bodies—Alexander Forbes, 1870 ; (**11**) tiger's tooth, pierced for suspension, and worn on person as charm by hill tribes of India—R. Graham Thoms, 1870 ; (**12, 13**) small perforated stones, which have probably been used as charms, from Ireland—Sir Herbert Eustace Maxwell, Bart., M.P., 1889.

TOBACCO-PIPES, SNUFF-BOXES, &c.

In Window Cases, North Side of Ground Floor.

NQ 1–64. Viz.—(**1**) tobacco pipe-heads of sixteenth and seventeenth centuries, from various localities ; (**2**) carved wooden pipe-case, brass-mounted ; (**3–5**) small iron pipes ; (**6**) carved ebony pipe-case—Dr Robert Baikie, 1873 ; (**7**) carved wooden pipe-head ; (**8–12**) snuff-mills or graters of wood, viz.—(**8**) by James Drummond, R.S.A. ; (**9**) from Logie Pert, Forfarshire—D. D. Black, 1860 ; (**10**) from Clova, Forfarshire—R. Forrest, 1873 ;

NQ (**11**, **12**) of white wood, localities unknown ; (**13**) snuff-mill of iron, cylindrical, 4 in. long, with crank handle—George Sim, 1869 ; (**14**) chain with snuff-spoon, hammer, brush, and other appurtenances of snuff-horn ; (**15–26**) snuff-horns, viz.—(**15–17**) mounted with brass and silver—*Sim Collection ;* (**18**) silver-mounted, with Vernon arms on lid, dated 1780 and 1850—J. E. Vernon, 1864 ; (**19**) with cork lid, carved with representations of fabulous men ; (**20**) of rude make, with iron hinge and chain ; (**21**) of rude make, with wooden lid—both by John Menzies, 1839 ; (**22**) of white horn with black studs, initialed R.G.R. 1711, &c. ; (**23–26**) small, curved, brass and silver-mounted ; (**27–28**) of brass, viz.—(**27**) set with small pieces of mother-of-pearl, with initials I.T.I. ; (**28**) in form of book, inscribed T.S. 1741 ; (**29**) snuff-box, said to have been presented to gentleman by Robert Burns—R. Blackie, 1828 ; (**30**, **31**) snuff-boxes, viz.—(**30**) made from part of "Royal George" ; (**31**) made from part of thorn-tree near which Colonel Gardiner was killed in 1745—J. Vernon, 1864 ; (**32–40**) snuff-boxes, viz.—(**32**) in form of shoe, lead-mounted ; (**33**) of ivory, silver-mounted, with monogram J.E.V.—Mr Vernon, 1864 ; (**34**) made from turbo shell, silver-mounted—*ibid.;* (**35**) of carved ivory, silver-mounted—P. Deuchar, 1860 ; (**36**) of ivory, top carved with group of Susannah and the Elders, and painting of lady and cherubim inside ; (**37**) of brass, small, oval, engraved with figure of ship, inscribed ROT. PORTEOVS, 1779 ; Andrew Cunninghame, 1869 ; (**38**) of solid silver, with allegorical device—Messrs Bryden and Baillie, 1782 ; (**39**) of wood—*Sim Collection ;* (**40**) of *papier-maché*, circular ; (**41–45**) snuff-boxes, viz.—(**41**) of dark wood, silver-mounted, with monogram W.L. ; (**42**) of ivory and wood, silver-mounted, inscribed "JAMES FERGUSON, 1754 ;" (**43**) of mother-of-pearl and tortoise-shell, silver mounted ; (**44**) of mother-of-pearl and tortoise-shell, silver-mounted, with painting of lady ; (**45**) of mother-of-pearl and tortoise-shell, silver-mounted, with hunting-scene on lid—all by James Gibson Craig, 1876 ; (**46–50**) tobacco-boxes, viz.—(**46**) with initials A.H. and date 1680 ; (**47**) with maltmen's arms, and inscribed JAMES CRAFOORD, MALTMAN, LEITH, 1737 ; (**48**) of brass and copper, inscribed PITER JONS, 1704 ; (**49**) with figures in relief, time of James VII. ; (**50**) of brass, with human figures—*Sim Collection ;* (**51**) snuff-mull of horn, silver-mounted, and set with pebble—The Earl of Southesk, 1883 ; (**52**) snuff-mull of bone, with spoon, bound with tin—Purchased 1885 ; (**53**) snuff-mull of horn, mounted with lead—Purchased 1886 ; (**54–57**) snuff-boxes, viz.—(**54**) in shape of barrel, bound with brass ; (**55**) in shape of dog's head ; (**56**) in shape of Wellington boot ; (**57**) circular—Purchased 1887 ; (**58**) circular snuff-box of tortoise-shell, painted—Miss Fraser, 1888 ; (**59**, **60**) snuff-boxes, viz.—(**59**) brass-mounted, with initials JR, iron spoon attached, from Malcolmburn, Bogbain, Keith ; (**60**) with bone spoon, no locality—*Linn Collection ;* (**61**) tin pipe-case and tobacco-box combined, from Hairywells, Keith—*ibid.;* (**62**, **63**) small snuff-boxes, one of horn, brass-mounted, other of leather, both from Orkney—Purchased 1888 ; (**64**) curious four-sided snuff-box, with space on each side for small Jew's harp—Purchased, Gibson Craig Sale, 1887.

[From other Countries.]

In Wall Case opposite Entrance Door on Second Floor.

NR 1–9. Viz.—(**1–6**) Dutch tobacco-boxes of brass and copper, mostly of oval form and engraved, viz.—(**1**)—Dr Daniel Wilson, 1863 ; (**2**)—*Bell Collection*, 1867 ; (**3**)—Thomas Bryce, 1860 ; (**4–6**) donors unknown ; (**7**) snuff-horn, from Iceland—Adam Rettie, 1876 ; (**8**) oval-shaped snuff-box of cane,

NR probably from West Indies; (**9**) snuff-box of silver-gilt, with oak lid mounted with silver, with engraving of tree and head of King Charles among branches, a genius bearing three crowns, below two mounted horsemen, &c.—Robert Carfrae, 1890.

CHESSMEN, DRAUGHTSMEN, &c.

In Window and Floor Cases, North Side of Ground Floor.

NS 1-29. Viz.—(**1-4**) tablemen of bone, viz.—(**1**) with centre of interlaced work, circumference ornamented with double circles, found in loch of Forfar—Dr J. Ogilvy, 1781; (**2, 3**) ornamented with dots and circles, from Castle Donnan, Ross-shire—Purchased 1868; (**4**) ornamented with figure of rabbit, found in ruins of Bishop's Palace, Kirkwall—Professor T. S. Traill, 1873; (**5-14**) casts of chessmen, viz.—(**5, 6**) king and queen, (**7, 8**) bishops, (**9, 10**) knights, (**11, 14**) pawns—A. W. Franks, M.A., and Professor J. O. Westwood, 1862; (**15**) chessman of walrus tusk, representing two knights back to back—Lord Macdonald, 1782; (**16**) cast of chessman—Professor Simpson, 1870; (**17, 18**) two packets of early playing-cards—James Drummond, R.S.A., 1877; (**19-29**) eleven chessmen of walrus ivory, viz., two kings, three queens, three bishops, one knight, and two pawns, found in underground chamber in island of Lewis—Purchased, Londesborough Sale, 1888.

MISCELLANEOUS ARTICLES.

On Ground Floor and in Wall Case on Second Floor.

NT 1-63. Viz.—(**1-5**) perforated portion of stone coping and four pins made from shank-bones of sheep, from roof of old house in Annan, built in 1666—Professor Duns; (**7, 8**) sea-chest and drinking-cup of Alexander Selkirk ("Robinson Crusoe")—Sir David Baxter, 1870; (**11, 12**) ears of corn, unthreshed, and sample of same as threshed by feet of women, from Ness, Sutherlandshire—Dr Arthur Mitchell, 1877; (**13**) private Sedan chair, used in Edinburgh till 1830—Professor Sir J. Y. Simpson, 1861; (**14**) Royal Arms and supporters in sewed work, time of Charles I., from Council Chambers, Edinburgh; (**15-17**) small oaken chest, and two plates of pewter, bearing stamp of corporation of pewterers of Edinburgh, from 1600 to 1760—James Huie, 1870; (**18**) marble slab, bearing forged Latin inscription, said to have been found at Falkirk; (**19, 20**) panes of glass, one inscribed with Burns' signature, the other with verse of poem attributed to Burns—*Sim Collection;* (**21**) bronze figure of Minerva with tilting-spear, found in digging Forth and Clyde Canal, near Kirkintilloch—William Anderson, 1786; (**22**) fragment of hair rope, made and used by natives of St Kilda; (**23**) woodcut for printing wrappers, inscribed "Wm. Henry Wickes, Citizen and Pinmaker in London," and motto "Virginitas. et. unitas. nostra. fraternitas"—Purchased 1870; (**24-26**) bronze implements or ornaments, viz.—(**24**) inlaid with niello, perforated at one end; (**25**) with perforated bulb in centre; (**26**) in form of whistle, found in moss at Denholm, Roxburghshire—Dr J. A. Smith, 1865; (**27, 28**) copper tablets, bearing inscriptions, taken from the foundations of the Leith Docks; (**29-34**) bronze objects, viz.—(**29**) solid vessel of brass, with three rings on the sides, stated to have been dug up in London; (**30-34**) miscellaneous objects of bronze and brass; (**35, 36**) discs of lead, bearing impressions of dies or stamps, probably Irish—one

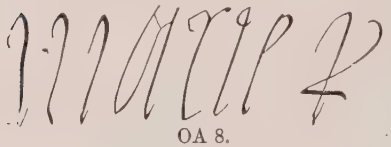
NS 19–25.

NT *Bell Collection;* (**37**, **38**) forgeries, viz.—(**37**) casket of stained wood, covered with plates of copper, in which are set polished pebbles, said to have been found with (**38**) nodule of clay ironstone, to which is attached copper band, while trenching at Crockbet, Carmichael, Lanarkshire—Treasure Trove, 1865; (**39–63**) forgeries in brass and lead, viz.—(**39**) lamp; (**40**) palstave with loop; (**41**) small dish with side handles; (**42–49**) daggers; (**50**) small spoon; (**51**) human figure in lead, 6½ in. high; (**52–56**) four medals of lead, and one of brass; (**57–62**) Roman coins; (**63**) copper plate, inscribed ROBERTUS SCOTORUM REX, said to have been found at Dunfermline.

MANUSCRIPTS, LETTERS, &c.

In Floor Swing-Case, East End of Ground Floor.

OA 1–153. Viz.—(**1**) quit-claim by Sir Michael de Wemyss to John Inglis of Inglis Tarvet, of his third part of the Mill of Tarvet (*circa* 1306)—T. Rattray, 1782. (**2**) Charter by Michael Scott, Lord of Balwery, to Yvo of Burneschelis, of the lands of Burneschelis (*circa* 1306)—T. Rattray, 1782. (**3**) Charter by Katherine Pyngil, daughter and one of the heirs of Ade Pyngil, burgess of Aberdeen, with consent of John Steyll, her husband, to William of Dalgernok, Laird of Fyntrie, of the half of the town of Blacwatyr, Banff, dated "in Festo Natalis Domini 1400"—William Kennedy, 1820. (**4**) Charter by Richard of Kintore, Provost of Aberdeen, of nine roods of land in Kintore to John Chalmers, master of St Thomas' Hospital of Aberdeen, dated 4th July 1451—William Kennedy, 1820. (**5**) Commission by Antonius Cardinalis to Archdean of Sodor, Dean of Lestalrig, and Provost of Seton, in diocese of St Andrews, to grant confirmation of charters in favour of John Kilpatrick of Alisland, given at Rome 8 Ides of September second year of Pont. of Pope Paul III., 1465—Robert Riddell, 1785. (**6**) Dispensation by Antonius Cardinalis, in favour of William Doidie and Eufrata, daughter of Roderick Hugonis, *alias* Huchesoune, empowering them to marry, they being related within the prohibited degrees, addressed to the official of Caithness, dated at Rome, 13th August, sixth year of the Pontificate of Paul III., 1469—Robert Riddell, 1781. (**7**) Original of the "Godlie Band for maintenance of the Evangell," December 1557, subscribed by Archibald, Earl of Argyll, the Earls of Glencairn and Morton; Archibald, Lord of Lorn, and John Erskine of Dun—Captain John Cunningham, 1877. (**8**) Letter addressed to Laird of Adamtoun,



OA 8.

requiring his attendance on "Satterday next weill accumpanyit with your honorable friendis and servandis" at Hamilton, with autograph signature of Mary Queen of Scots, dated 6th May 1568—John Caw, 1782; (**9**) letter subscribed by Earls of Mar, Glencairn and Gowrie, Lord Lindsay, and others of Privy Council, addressed to Laird of Dun, dated at Stirling 31st August 1582—A. Cardonnel, 1781. (**10**) Explanation of the dragon of Apocalypse, with figure of the "beast," dated 1605–1621. (**11**) Letter with signature of James VI., dated at Whitehall, 31st December 1616, addressed to the burgh of Dundee, intimating his intention of visiting Scotland, and requiring them to send commissioners to the Convention of Estates at Edinburgh on the 5th March next—James

OA Cumming, 1783. (12) Order for disbursement to Sir James Fullerton, gentleman of the bedchamber, by Charles, Prince of Wales, afterwards Charles I., dated St James's, 27th February 1616. (13) Communication from Scottish Parliament to Parliament of England, 26th June 1649. (14) Commission subscribed by Oliver Cromwell to Charles Stoddart, Quartermaster of Major-General Lambert's regiment, dated 13th March 1650—Adam Cardonnel, 1782. (15) Commission signed by General Monck, Commander-in-Chief of forces in England, Scotland, and Ireland, to Jeremiah Smith to be Major and Captain, dated 25th February 1659. (16) Honorary burgess ticket creating Archbishop Sharpe burgess and guild-brother, dated 27th June 1662—Rev. J. Jaffray, 1850. (17) Order, by General Monck, to Captain Gascoigne, Governor of Finlarik, to protect the widow and children of the Laird of MacNab in their lands, &c., "given under our hand and seal," and signed *George Monck*, Dalkeith, 16th January 1654—Trustees of John Sang, 1867. (18) National covenant on vellum, engrossed "For the Burghe and Parochin of Dumbarton, 1638"—A. Ferguson, 1784. (19) Solemn league and covenant for the parish of Newbattle, signed by the Earl of Lothian, Robert Leighton, afterwards Archbishop of Glasgow, and others—Robert Murray, 1781. (20) Bond of union between officers of the king's army, dated "the 18th Junne 1676 yeirs." (21) National covenant on vellum, with painted border, having signatures of members of the Scottish Privy Council, 1638—John Leslie, 1784. (22) Roll of the Scottish Parliament, called 18th April 1693—Alexander Christie, 1848. (23) Letter of J. M'Govane, from the Tolbooth of Stirling, announcing to his mother that "the Lord hath seen meet to honour me with a prison," "ye 26 febr. 1677." (24) Declaration by Lords and Senators of the College of Justice against the lawfulness of the solemn league and covenant, signed by Earl of Perth, Lord Chancellor, Atholl, Queensberry, and other nobles, 1685—R. E. Scott, 1861. (25) National covenant on vellum, with the signatures of Montrose, Rothes, Cassilis, and other Scottish nobles and commoners, 1638—T. Rattray, 1782. (26) Verdict of jury against Halkstoun of Rathillet, finding him guilty of joining the rebels at Bothwell Brig, &c., and for art and part of murder of Archbishop Sharpe, dated 30th July 1680—Alexander Macdonald, 1849. (27) Commission, under privy seal, superscribed by King Charles II. and subscribed by Earl of Lauderdale, to William, Master of Ramsay, to be cornet in the regiment of horse whereof the Earl of Dundee is captain, dated Whitehall, 1st January 1667—Samuel Shaw, 1782. (28) National covenant on vellum, for the parish of Maybole, largely signed by ladies, 1638—Thomas Rattray, 1782. (29) "The forme and maner of the Kingis Coronatioun and Rittes to be observit thairin from other the lyk solempnities knowne to have bein usit aither in this Kingdome or by uther great Princes abroad." (30) Letter of Archbishop Sharpe to the Earl of Middleton, Lord High Commissioner, 1661—Earl of Buchan, 1788. (31) "The Declaration of a poore, wasted, misrepresented Remnant of the suffering, Anti-Popish, Anti-Prelatick, Anti-Erastian, Anti-Sectarian, true Presbyterian Church of Christ in Scotland, united together in a general correspondence"—the original, which was affixed to market-cross of Sanquhar, 10th August 1692—Alexander Ferguson, 1782. (32) Letter from Bishop Burnet, dated Saltoun, 5th March 1666, and addressed "To the Right Reverend my Lord, The Bishop of Edinburgh. (33) Pedigree of Campbells of Argyll, beginning with King Arthur, and ending with Archibald, ninth Earl, 1661–1685—Earl of Buchan, 1781. (34) Protest by Earl of Cassilis, Johnstoune of Warristoun, and others, against introduction of book of common prayer, as published at market-cross of Edinburgh, 22nd February 1638, on vellum—James Swan, 1828; (35) Warrant signed by King Charles II., and countersigned by Earl of Lauderdale, who added a postscript, given at Whitehall, 11th July 1670;

OA (**36**) Letter from James II. (of England) to M'Donell of Keppoch, alluding to death of "the brave Viscount Dundee," "given at our courte at Dublin Castle the last day of November 1689, and in the fifth yere of our reigne"—Trustees of John Sang, 1867. (**37**) Warrant for commission for inquiring into slaughter of M'Donalds of Glencoe, April 1695, with autograph of William III.—Alexander Bryson, 1863. (**38**) List of examinable persons within the second bounds of "ye N. K. Paroch, [Edinburgh], anno 1704"—James Law, 1827. (**39**) "The Crouns Last Speech, March 26th, 1707, when lodged in ye castle of Edin^r., after ye rising of ye Parliam^t—" (a short poem). (**40**) Obligation by "Rob Roy"

OA 40.

to deliver to James, Duke of Montrose, sixty Kintail Highland cows "at fourteen pounds Scotts per piece with ane bull to the bargane," dated at Glasgow the 27th December 1711, with signature Ro: Campbell—Trustees of John Sang, 1867. (**41**) Bond of acknowledgment by Robert Campbell, *alias* M'Grigor of Inversnait, to John Hamiltone of Bardowie, of having borrowed "2000 merkses Scots money, with a penalty of 400 merks in case of faylzye," dated at Glasgow, 21st December 1711, signed Ro: Campbell, &c.—*ibid.* (**42**) Extract of registered protest by William Buchanan in Tarbert against "Robert Roye Campbell of Inversnait," for non-payment of a bill for a sum of £85 sterling, dated "att Edinburgh the eight day of Aprill 1712 yeirs. Extracted by Joseph Alexander"—*ibid.* (**43**) warrant by Lords of Justiciary for putting in execution sentence of scourging against Jean Ramsay for manslaughter at Leith, signed (by the Lords) James Erskine, W. Calderwood, and Ja. Hamilton, 25th March 1713—Dr D. H. Robertson, 1863. (**44**) Commission, superscribed by James VIII. and subscribed by Earl of Mar, to Marquess of Tullibardine, appointing him Lieutenant-General of Forces, given at our court at Avignon, 2nd January 1717—Sir Henry Jardine, 1825. (**45, 47, 50, 51**) Rules and bye-laws of the Edinburgh Magistrates from 1700–1720 A.D. (*Printed Sheets*). (**46**) Mail notice of postmaster of that time, dated 1715. (**48, 49**) The dying speeches of Earl of Derwentwater and Lord Kenmore, executed in 1716 for participation in rebellion of previous year (*Printed Sheets*). (**52**) Funeral invitation, being a printed circular with engraved border, dated at Edinburgh, 19th March 1739—R. Carfrae, 1873. (**53**) Original address on vellum, bearing the signatures of 102 chief heritors and heads of clans, transmitted to King George I. on his accession to the British throne, 1714—Earl of Buchan, 1783. (**54**) Indenture on parchment, drawn up in English form, dated in 1746, signed and sealed by 125 Highlanders "unfortunately concerned in the late unnatural rebellion," who acknowledged the crimes committed prior to 23rd January 1746, and petitioned the king for mercy, which they obtained by giving themselves up to be transported for life to one of the colonies (Jamaica)—R. Graham, 1829. (**55**) Diploma of College of Aberdeen in favour of Dr Pitcairn, dated 7th August 1699—Dr Webster, 1781. (**56**) Warrant by Magistrates of Leith for apprehending Alexander Haig, skipper, and Euphame Weir, for their irregular marriage, at Leith, 30th October 1712—Dr D. H. Robertson, 1863. (**57**) Written ticket to admit to course of twelve lectures on Experimental Philosophy by James Ferguson, dated 6th June 1768,

OA the ticket in Ferguson's handwriting—Robert Harris, 1871. (**58**) "The last words of John Knox, who was shot in the North Inch of Perth on the 24th August 1716, about 7 in the morning" (*Printed Sheet*). (**59**) Autograph letter of John, eleventh Earl of Mar, who proclaimed the Pretender in 1715, dated Paris, 8th April 1729—Dr D. H. Robertson, 1861. (**60**) Blank commission, signed by Prince Charles Edward, dated

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Perth, 7th September 1745, being one of several entrusted to Evan Macpherson, who was at that time engaged in raising forces for the service of Prince Charles—Cluny Macpherson, 1860. (**61**) Autograph letter from Lady Margaret Balmerino to Mrs Borthwick, her sister, announcing execution of her husband, Lord Balmerino, and Lord Kilmarnock, dated London, 19th August 1746—Dr D. H. Robertson, 1862. (**62**) Pass by William, Duke of Cumberland, dated at Fort Augustus, 21st June 1746, to permit bearer, waiting-woman to Lady Houston, with some baggage, to pass from Greenock to Bourdeaux (*Printed Sheet*)—Adam Cardonnel, 1783. (**63**) Play-bill (in MS.) for dramatic performance at New Georgia, the winter station of Captain Parry's Arctic expedition. (**64**) Letter by Lawrence Sterne, novelist, dated Montpellier, 5th November 1763—Robert Fraser, 1845. (**65**) Letter by Duncan Forbes of Culloden, President of Court of Session, addressed to "Mr William Forbes, Writer to the Signet, Edinburgh," dated Culloden, 23rd November 1745. (**66**) Autograph presentation letter of Paul Jones, addressed to Mrs Belches, Edinburgh, dated Paris, 29th August 1786—A. Campbell Swinton, 1860. (**67**) Autograph letter of Sir Walter Scott, concerning publication of "The Lady of the Lake" and "Marmion," addressed to Mr William Miller, bookseller, London, dated Edinburgh, 15th March 1810—R. Carfrae, 1867. (**68**) Pardon granted to Alexander Robertson of Strowan, by King George II., dated 3rd September 1631—R. Carfrae, 1862. (**69**) Last verses by Sir Walter Scott, written at Rome in 1832 by request of the Countess Wollenluss, a Russian lady—James B. Kerr, 1883. (**70**) Proclamation by George II. for a General Fast to be held in Scotland on the 15th February 1759, dated 13th December 1758. (**71**) Commission by King George I. to Richard Munden, Esquire, to be Colonel of Dragoons, dated St James's, 22nd July 1715—Earl of Buchan, 1782. (**72**) Commission by King George III. to Alexander Duncan, Esquire, Lieut-Col. of Royal St Andrews Volunteers, dated 11th May 1797, having king's signature and privy seal—R. Carfrae, 1866. (**73**, **74**) Two letters of Robert Burns, dated 1788 and 1790—Managers, Royal Infirmary, 1882. (**75**) Letter written by James Hogg, "Ettrick Shepherd," dated 25th July 1833—R. Carfrae. (**76**) Letter by David Wilkie, artist, dated Abbotsford, 7th November 1833. (**77**) Bank cheque for £35, signed by Sir Walter Scott, Abbotsford, 12th April 1825. (**78**) Letter of David Hume, the historian, dated at Bath, 20th May 1776. (**79**) Letter by James Hogg, dated 11 Waterloo Place, 27th February 1832—R. Carfrae, 1866. (**80**)

OA 66.

OA Official document drawn up on lodging regalia of Scotland in Edinburgh Castle, 1707—Adam Cardonnel, 1781. (**81**) Order of battle given at sea, on board the *Ocean*, 15th March 1808, signed "Collingwood"—R. Carfrae, 1866. (**82**) Original list of subscribers to Royal Exchange, Edinburgh, built 1753—William Skinner, 1862. (**83**) Proclamation by Charles II. against seditious language, dated 1674 (*Printed Sheet*). (**84**) Permit to Captain Deddar, of the ship *Klein George*, signed by Napoleon—Lt.-Col. W. Wauchope-Sherwell, 1873. (**85**) Holograph letter by Sir Walter Scott to Sir Samuel Toller, dated "Edinburgh, 9th December 1818"—D. G. Gellibrand, 1882. (**86**) Admission ticket to "Shakespear's Jubilee, the 6th and 7th of September [1769], at Stratford-upon-Avon; "this ticket admits one on the 6th to the Oratorio. The Dedication Ode. The Ball. And to the great Booth at the fireworks, One guinea. (Signed) George Garrick, No. 182"—A. Campbell Swinton, 1866. (**87-152**) Specimens of old paper money of the United States, and of Scotland and England—Andrew Coventry, 1873; J. W. M'Queen, 1850; Rev. J. Milligan, 1867; Mr Foulerton, 1828; R. Kerr, 1787; A. O. Brodie, 1865; Mr Erskine, 1784; A. Cardonnel, 1783; William Muirhead, 1785; J. B. Mackay, 1869; A. Sholto Douglas, 1881; J. Dove Wilson, 1882; William Miller, 1886; Rev. William Gordon, 1874; Kuno Mayer, 1874; Lieut. C. Shaw, 1833. (**153**) Autograph letter of Dr David Livingstone, the African traveller—Robert White, 1889.

In Table Case on Second Floor.

Two Antiphonaries; two "Books of Hours;" a copy of the Four Gospels in Ethiopic; a copy of the Bible in Manuscript, with ornamental borders; a copy of the Koran in Manuscript, &c.

COINS AND MEDALS.

In Floor Cases at Entrance Door on Ground Floor.

OB Series of the coinage of Scotland, from King David I. (1124) down to Union with England in 1707, during the reign of Queen Anne.

Series of Anglo-Saxon coins prior to Conquest, and series of the coinage of England, from 1066 to the present time.

Series of royal and miscellaneous medals relating to Great Britain of seventeenth, eighteenth, and nineteenth centuries.

[From other Countries.]

In Table Case on Second Floor.

OC Collection of medals of Russia, Sweden, Norway, Denmark, Germany, France, Italy, Spain, &c.

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